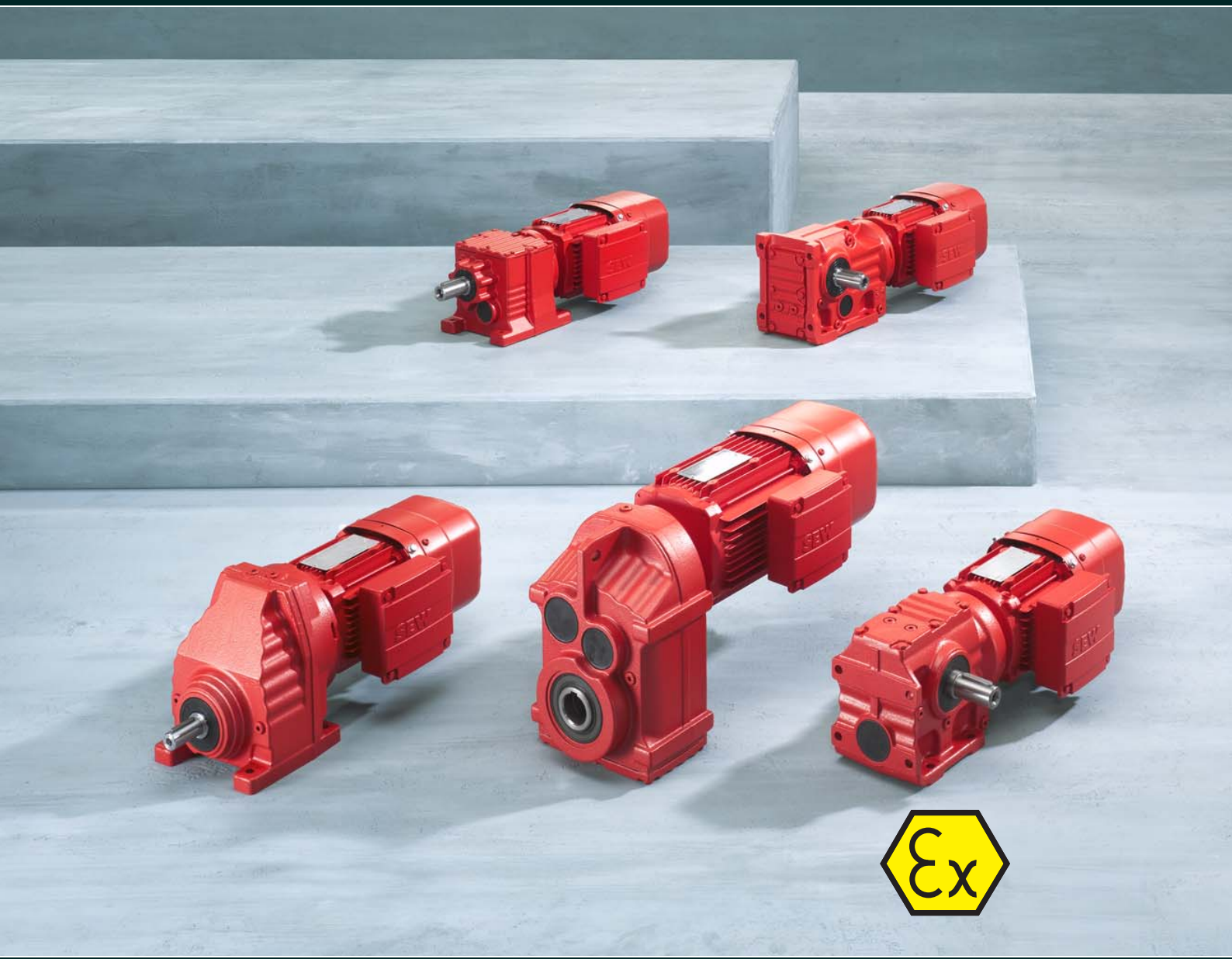
SEW EURODRIVE

Catalog



Explosion-Proof Drives

EDR.71 – 225 Motors, DR63, DV250, DV280 Motors
With R, F, K, S and W Gear Units

Edition 04/2012

19382014 / EN








KKFU 144794 3
42G1



Contents

1 Introduction 5
1.1 The SEW-EURODRIVE group of companies 5
1.2 Products and systems from SEW-EURODRIVE 6
1.3 Documentation 8
1.4 Product names and trademarks 9
1.5 Copyright 9

2 Product Description 10
2.1 Designations for explosion protection 10
2.2 Motor protection 12
2.3 Drive engineering to EU Directive 94/9/EC 12
2.4 Regulations 14
2.5 Categories and protection types 17
2.6 Unit marking according to directive 94/9/EC 21
2.7 Product description 22

3 Overview of Types and Type Designations 28
3.1 Design variants and gear unit options 28
3.2 Design variants and options of the EDR motor series 31
3.3 Gearmotor types 34
3.4 Sample type designation of an EDR. gearmotor 43

4 Project Planning 45
4.1 Drive and gear unit selection data 45
4.2 Project planning procedure for EDR. drives – line powered 48
4.3 Project planning procedure for EDR. drives – inverter powered 49
4.4 Project planning information – R, F, K, S, W gear units 50

5 Mounting Positions of the Gear Units 58
5.1 General mounting position information – R, F, K, S, W gear units 58
5.2 Important order information 59
5.3 Key to the mounting position sheets 63
5.4 Mounting positions of helical gearmotors 64
5.5 Mounting positions of parallel-shaft helical gearmotors 69
5.6 Mounting positions of helical-bevel gearmotors 72
5.7 Mounting positions of helical-worm gearmotors 77
5.8 Mounting positions of SPIROPLAN® gearmotors 83
5.9 Mounting positions of AC motors 89

6 Design and Operating Notes 90
6.1 Lubricants and fill quantities for R, F, K, S, W gear units 90
6.2 Reduced backlash gear unit types 97
6.3 Installation/removal of gear units with hollow shaft and key 98
6.4 Gear units with hollow shaft 104
6.5 TorqLOC® mounting system for hollow shaft gear units 105
6.6 Gear unit with flange block shaft 106
6.7 Shouldered hollow shaft option with shrink disk 107
6.8 Adapter for installation of IEC motors 114

6.9 Adapter for installation of NEMA motors 117
6.10 Adapter for mounting servomotors 119
6.11 Gear unit mounting 122
6.12 Torque arms 122
6.13 Flange contours of RF.. and R..F gear units 123
6.14 Flange contours of FF.., KF.., SF.. and WF.. gear units 124
6.15 Flange contours of FAF.., KAF.., SAF.. and WAF.. gear units 125
6.16 Fixed cover 126
7 Important Notes on Selection Tables and Dimension Drawings 127
7.1 Selection tables for explosion-proof gearmotors 127
7.2 Dimension sheet information 128
7.3 Gearmotor dimensions 131
8 Category /2GD T3 132
8.1 Selection tables for helical gearmotors /2GD T3 132
8.2 Selection tables for parallel-shaft helical gearmotors /2GD T3 183
8.3 Selection tables for helical-bevel gearmotors /2GD T3 215
8.4 Selection tables for helical-worm gearmotors /2GD T3 250
8.5 Selection tables for SPIROPLAN® gearmotors /2GD T3 268
9 Category /3GD T3 275
9.1 Selection tables for helical gearmotors /3GD T3 275
9.2 Selection tables for paralel-shaft helical gearmotors /3GD T3 328
9.3 Selection tables for helical-bevel gearmotors /3GD T3 361
9.4 Selection tables for helical-worm gearmotors /3GD T3 398
9.5 Selection tables for SPIROPLAN® gearmotors /3GD T3 416
10 Dimension Sheets for Explosion-Proof EDR. Gearmotors 423
10.1 Helical gearmotors 423
10.2 Parallel-shaft helical gearmotors 473
10.3 Helical-bevel gearmotors 528
10.4 Helical-worm gearmotors 583
10.5 SPIROPLAN® gearmotors 618
11 Technical Data of Explosion-Proof AC Motors 635
11.1 Key to the data tables 635
11.2 Technical data of 4-pole explosion-proof energy-efficient motors 635
11.3 Technical data for protection type nA, category II3GD (zones 2 and 22) 640
11.4 Technical data for protection type e, category II2G (zone 1) 640
12 Appendix 641
12.1 Check List and Inquiry Form for Explosion-Proof Drives 641
12.2 Cable dimensions to AWG 645
13 Address Directory 646
Index 668

1 Introduction

1.1 The SEW-EURODRIVE group of companies

1.1.1 Global presence

Driving the world – with innovative drive solutions for all branches and for every application. Products and systems from SEW-EURODRIVE are used in all around the world. Be it in the automotive, building materials, food and beverage or metal-processing industry, the decision to use drive technology "made by SEW-EURODRIVE" stands for reliability for both functionality and investment.

Not only is SEW-EURODRIVE represented in all important industries of our time, SEW-EURODRIVE is also present all over the world: with 12 production plants and 67 assembly plants in 47 countries and our customer service, which we see as an integrative part of our portfolio that extends our high quality standards.

1.1.2 Always the right drive

The SEW-EURODRIVE modular concept offers millions of combinations. This wide selection enables you to choose the correct drive for any application, each based on the required speed and torque range, space available and the ambient conditions. Gear units and gearmotors offering a unique and finely tuned performance range and the best economic prerequisites to face your drive challenges.

The gearmotors are electronically empowered by MOVITRAC® frequency inverters, MOVIDRIVE® inverters and MOVIAXIS® multi-axis servo inverters, a combination that blends perfectly with the existing SEW-EURODRIVE program. As in the case for mechanical systems, the development, production and assembly is also carried out completely by SEW-EURODRIVE. In combination with our drive electronics, these drives provide the utmost in flexibility.

Products of the servo drive system, such as low backlash servo gear units, compact servomotors or MOVIAXIS® multi-axis servo drives provide precision and dynamics. From single-axis or multi-axis applications all the way to synchronized process sequences, servo drive systems by SEW-EURODRIVE offer flexible and customized implementation of your applications.

For economical, decentralized installations, SEW-EURODRIVE offers components from its decentralized drive system, such as MOVIMOT®, the gearmotor with integrated frequency inverter or MOVI-SWITCH®, the gearmotor with integrated switching and protection function. SEW-EURODRIVE hybrid cables have been designed and produced specifically to ensure cost-effective solutions, independent of the philosophy behind or the size of the system.

New developments from SEW-EURODRIVE include: MOVITRANS®, the system for contactless energy transfer, MOVIPRO®, the decentralized drive control and MOVIFIT®, the new decentralized intelligence.

Power, quality and sturdy design combined in one standard product: With high torque levels, industrial gear units from SEW-EURODRIVE realize major movements. The modular concept will once again provide optimum adaptation of industrial gear units to meet a wide range of different applications.

1.1.3 Your ideal partner

Its global presence, extensive product range and broad spectrum of services make SEW-EURODRIVE the ideal partner for the machinery and plant construction industry when it comes to providing drive systems for demanding applications in all branches of industries and applications.

1.2 Products and systems from SEW-EURODRIVE

The products and systems from SEW-EURODRIVE are divided into product groups. These product groups are:

1. Gearmotors and frequency inverters
2. Servo technology
3. Drive systems for decentralized installation
4. Industrial gear units
5. VARIOLUTION® and MAXOLUTION®
6. Interdisciplinary products

The following tables indicate the products included in the respective product group:

Gearmotors and frequency inverters
• R..7, F..7, K..7, S..7 and SPIROPLAN® W series gear units in standard and explosion-proof design • HW.., HS.., HK.. gear units for overhead trolley systems • Stainless steel gear units and gearmotors • Variable-speed gear units and variable-speed gearmotors in standard and explosion-proof design • DR.. AC motors and AC brakemotors in standard and explosion-proof design • DR.. energy-efficient motors • Pole-changing gearmotors • Aseptic gearmotors • Geared torque motors • Single-phase motors and single-phase brakemotors • Asynchronous linear motors • MOVITRAC® frequency inverters • MOVIDRIVE® inverters • Control, technology and communication options for inverters

Servo technology
• BS.F.., PS.F.. and PS.C.. series servo gear units in standard and explosion-proof design • Low backlash R..7, F..7, K..7, S..7 and SPIROPLAN® W series gear units in standard and explosion-proof design • CMP synchronous servomotors and servo brakemotors in standard and explosion-proof design • CMDV compact servomotor and servo brakemotors • SL2 and SL2 synchronous linear motors • DRL asynchronous servomotors and servomotors • CMS electric cylinders • MOVIDRIVE® servo inverters • MOVIAXIS® multi-axis servo inverters • MOVITRAC® LTX servo inverter • Control, technology and communication options for servo drive inverters and servo inverters

Drive systems for decentralized installation
• MOVIMOT® geared brakemotor with integrated frequency inverter in standard and explosion-proof design • MOVI-SWITCH® geared brakemotor with integrated switching and protection function in standard and explosion-proof design • MOVIGEAR® mechatronic drive system • MOVIFIT® drive controller • MOVIPRO® drive and positioning controller • MOVITRANS® contactless energy transfer • Fieldbus interfaces in standard and explosion-proof design • Field distributors

Industrial gear units
• X.. and MC.. series helical and bevel-helical gear units in standard and explosion-proof design as well as ML.. • P..1 and P..2 helical and bevel-helical planetary gear units and gearmotors in standard and explosion-proof design • P.MC helical and bevel-helical planetary gear units in standard and explosion-proof design

VARIOLUTION® and MAXOLUTION®
• VARIOLUTION® packages for high technical solution expertise in plants and machines • MAXOLUTION® systems for customer-specific system solutions and plants

Interdisciplinary products
• Components in design with functional safety technology • Installation software • Control software • Operator panels • Fieldbus interfaces and gateways • Diagnostic unit

In addition to products and systems, SEW-EURODRIVE offers a comprehensive range of services. These include:

- Technical consulting
- Application software
- Seminars and training
- Extensive technical documentation
- International customer service

Visit our homepage at

→ **www.sew-eurodrive.com**

The website provides comprehensive information and services.

1.3 Documentation

1.3.1 Contents of this publication

This "Explosion-Proof Drives" catalog includes the detailed technical data of the following SEW-EURODRIVE product groups:

- Explosion-proof drives of category 2G, temperature class T3
- Explosion-proof drives of category 2GD, temperature class T3, maximum surface temperature 120 °C or 140 °C.
- Explosion-proof drives of category 3D, temperature class T3, surface temperature 120 °C
- Explosion-proof drives of category 3GD, temperature class T3, surface temperature 120 °C or 140 °C

This catalog provides the following information:

- Product descriptions
- Type designations
- Project planning instructions for drives and gear units
- Description of mounting positions
- Explanation on the order information
- Design and operating notes
- Important information on tables and dimension sheets
- Description of the different types
- Overview of all permitted combinations
- Selection tables for explosion-proof drives
- Dimension sheets for explosion-proof drives
- Technical data

1.3.2 Additional publications

The "Explosion-Proof AC Motors" catalog is also available from SEW-EURODRIVE in addition to this "Explosion-Proof Drives" catalog.

This catalog offers the following information:

- Type designations
- Product descriptions
- Project planning information for explosion-proof AC motors
- Technical data of explosion-proof AC motors
- Technical data of options and additional features
- Important information on the dimensions sheets
- Dimension sheets for explosion-proof AC motors
- Information on brakes from SEW-EURODRIVE
- Information on prefabricated cables

Please note that the complete range of technical documentation is available on our website:

www.sew-eurodrive.com

1.4 Product names and trademarks

All product names in this documentation are trademarks or registered trademarks of their respective titleholders.

1.5 Copyright

© 2012 – SEW-EURODRIVE. All rights reserved.

Unauthorized duplication, modification, distribution or any other use of the whole or any part of this documentation is strictly prohibited.

2 Product Description

2.1 Designations for explosion protection

With the revision of the explosion protection standards, new designations have been implemented internationally (IEC), the so-called **E**quipment **P**rotection **L**evels (EPL). Parallel to the explosion protection categories, these levels specify the applicability of the devices according to the zone categorization of the potentially explosive atmospheres.

With the revision of EN 60079-0 issued in 2010, the EPL were also adopted by European standards.

The following table shows the assignment of the EPL to the zones:

Gas			Dust		
EPL :	**Category:**	**Use in zone:**	**EPL:**	**Category:**	**Use in zone:**
Ga	1G	0	**Da**	1D	20
Gb	2G	1	**Db**	2D	21
Gc	3G	2	**Dc**	3D	22

With the revision of the IEC 60079 "electrical apparatus for potentially explosive atmospheres" the dust explosion protection has been integrated in this set of standards as part 31. The separate dust standard IEC 61241-1 has become invalid with the release of IEC 60079-31 in November 2008.

The international standard IEC 60079 will be harmonized as EN standard with the same number and the same content in the foreseeable future.

The equipment group III for dust has also been implemented as part of this integration. Thus there are 3 equipment groups in international standards:

Equipment group	Equipment for the use
I	In mine openings with a risk of firedamp (underground mining)
II	In areas with potentially explosive gas/air mixtures
III	In areas with potentially explosive dust/air mixtures

In addition, the new equipment group III has been split up into three subgroups "A", "B" and "C" depending on the type of dust:

Equipment group	Suitable for atmospheres with	Minimum degree of protection IP (x = placeholder)
IIIA	Inflammable fluffing	5x
IIIB	Non-conducting dust	5x
IIIC	Conducting dust	6x

The specific values of equipment groups IIIA to IIIC for the dust/air mixture correspond to the previous designation IIA to IIC for gas/air mixtures.

Previously, the designation IIA to IIC has only be used for motors in EX-d design (flameproof). Now, the designation of motors of a protection type with increased safety "e" is changed from II (without letter) to IIA, IIB, or IIC. This implies demands on the prevention of electrostatic charge of plastic surfaces, e.g. fans and coated, metal surfaces.

The standard changes described above also cause a change of the EX designation of motors that must also be specified on the motor nameplate. The following table shows this change (example).

Previous, "old" designation	New designation (ATEX)	New designation (IECEx)
II2G Ex e II T3	II2G Ex e IIc T3 Gb	Ex e IIC T3 Gb

Previous, "old" designation	New designation (ATEX)	New designation (IECEx)
II3G Ex nA II T3	II3G Ex nA IIC T3 Gc	Ex nA IIC T3 Gc
II2D Ex tD A21 IP65 T120°C	II2D Ex tb IIIC T120°C Db	Ex tb IIIC T120°C Db
II3D Ex tD A22 IP54 T120°C	II3D Ex tc IIIB T120°C Dc	Ex tc IIIB T120°C Dc
II3D Ex tD A22 IP65 T120°C	II3D Ex tc IIIC T120°C Dc	Ex tc IIIC T120°C Dc

With the designation of the explosion protection, you have to distinguish between the designation according to Directive (e.g. II3D) and the designation according to standard (e.g. Ex tc IIIC T120°C Dc).

Designation according to directive	Designation according to standard
II3D	Ex tc IIIC T120°C Dc

Equipment sold within the scope of the European Directive 94/9/EC must be labeled according to Directive 94/9/EC in addition to the standard designation. It is important to note that the Directive designation (e.g. with II) and the standard designation (e.g. with III) are two different designations.

As the directive contains both gas and dust atmospheres in category II, a motor can be designated with II3D according to the directive and with IIIC according to the standard, for example.

2.2 Motor protection

Motor protection must be in accordance with the respective approvals. Two basic protection variants are distinguished:

1. Motor current circuit breaker
2. Temperature sensor (PTC resistor, SEW designation: TF)

The following additional features can be selected as well, if available:

For 1: TF, KY or PT

For 2: KY or PT

You find detailed information in the "Explosion-Proof AC Motors" catalog.

The following table shows the type of motor protection required according to the respective approval:

Category	2 2GD / Gb Db 2G / Gb			3 3GD / Gc Dc 3D / Dc		
Operation	**Supply system**	**Frequency inverter**	**Pulsed**	**Supply system**	**Frequency inverter**	**Pulsed**
Label (see nameplate)	T_e time	T_a time	–	–	–	–
Motor protection according to	1.	2.	2.	1.	2.	2.

2.3 Drive engineering to EU Directive 94/9/EC

2.3.1 Why explosion protection?

Operating systems and machines in areas with potentially explosive air / gas or air / dust mixtures requires special measures. If mixture formation cannot be prevented, specially protected drives must be used. Applicable standards and regulations govern the use of equipment within existing hazard zones. They also stipulate the quality requirements that must be met by drive manufacturers.

2.3.2 Harmonized European design provisions

EU Directive 94/9/EC provides binding minimum requirements to be applied within the European Union to equipment intended for use in potentially explosive atmospheres. The minimum requirements are defined in the European standards. These standards are identical with the international EX standards on the IEC level. This means motors in accordance with 94/9/EC also meet the requirements of the respective international laws. In relation to drives, the directive covers motors as well as all other electrical and mechanical components such as gear units, mechanical variable speed gear units, brakes, forced cooling fans, integrated frequency inverters, sensors, and actuators.

Directive 94/9/EC defines the minimum requirements for units and divides the units into categories.

The requirements for production plants, division into zones and the assignment of equipment categories to zones are defined in EU Directive 1999/92/EC.

Naturally, EU Directive 94/9/EC also applies to all products which are manufactured outside the EU and imported into the EU. To indicate compliance with EU Directive 94/9/EC, explosion-proof units also bear the CE mark on their nameplates.

2.3.3 Explosion-proof drives from SEW-EURODRIVE

Drives from SEW-EURODRIVE for potentially explosive atmospheres have the following characteristics:

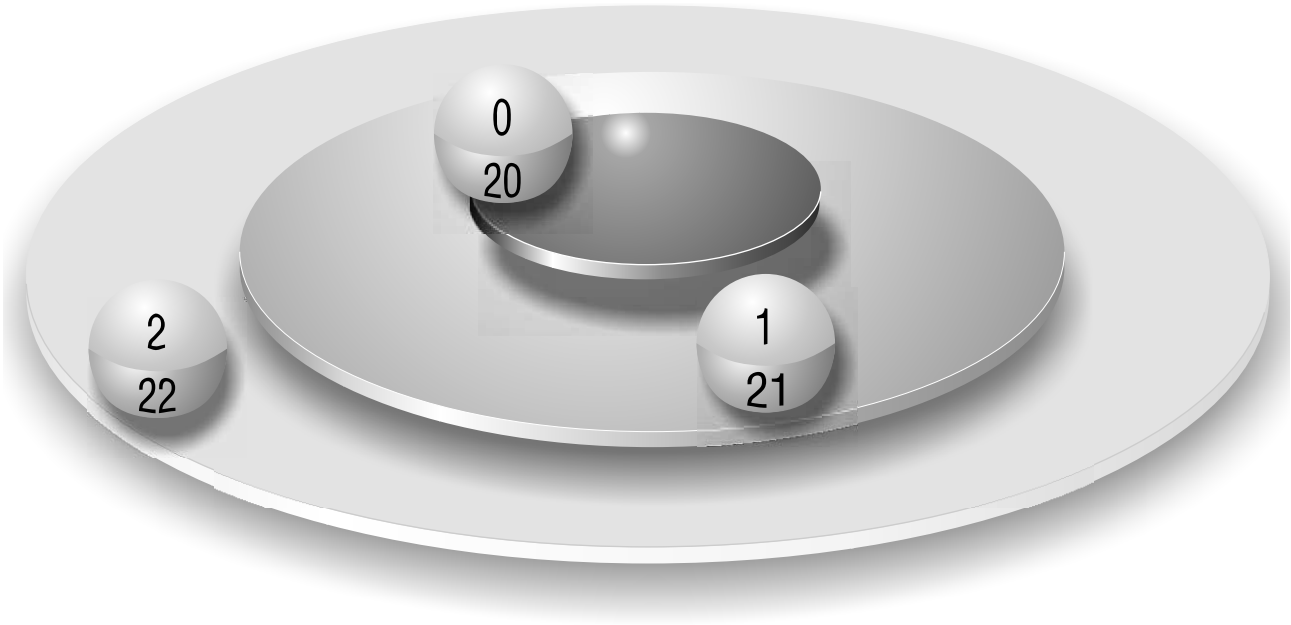
- Included are all product areas from line-powered AC gearmotors and MOVIMOT® gearmotors with integrated frequency inverters through to controlled drives for particularly exacting applications.
- All components can be combined with one another according to the rules of the SEW-EURODRIVE modular concept.
- All drives satisfy typical market requirements in terms of their power range and functions.

2.4 Regulations

2.4.1 Zones in a potentially explosive atmosphere

According to EU Directive 99/92/EC, the operator of the equipment must divide potentially explosive atmospheres into zones.

Zone		Probability of a potentially explosive atmosphere occurring	SEW-relevant
Gas	Dust		
0	20	Continuous, long-term, frequent, predominant in time	
1	21	Occasional, in normal operation	x
2	22	Seldom, short-term	x



2.4.2 Division of explosion-proof equipment into categories

According to EU Directive 94/9/EC, explosion-proof equipment is divided into categories. The category specifies the protection level of the equipment, describes the operating conditions and makes it easier to assign permitted equipment to a zone. In addition to the degree of protection (normal, high, very high), the directive distinguishes between explosive G (gas) and D (dust) atmospheres.

Category	Degree of protection	Guaranteed protection	Operating conditions	SEW-relevant
M1	Very high	With two independent preventive measures; two faults are allowed to occur independently of one another	Equipment continues to operate in the presence of a potentially explosive atmosphere	
1	Very high	With two independent preventive measures; two faults are allowed to occur independently of one another	Equipment continues to operate in the presence of a potentially explosive atmosphere	
M2	High	Suitable for normal operation and harsh operating conditions	Equipment is switched off in the presence of a potentially explosive atmosphere	
2	High	One preventive measure; suitable for normal operation with the likeliness of frequent malfunctions, one fault is allowed to occur	Equipment continues to operate in the presence of a potentially explosive atmosphere	x
3	Standard	Suitable for standard operation	Equipment continues to operate in the presence of a potentially explosive atmosphere	x

2.4.3 Overview of explosion-proof equipment

The following table describes the division of explosion-proof equipment into equipment groups I and II:

	Equipment group I Mines, firedamp		Equipment group II Other areas with potentially explosive atmospheres due to gas or dust					
Category	M1	M2	1		2		3	
Potentially explosive atmosphere[1)]			G	D	G	D	G	D
Zone			0	20	1	21	2	22
Protection type **Motor** **Gear unit**					d, e, i, p ... (c, k ...)	t (c, k ...)	nA (c, k ...)	t (c, k ...)

1) G = Gas atmosphere, D = Dust atmosphere

INFORMATION

All gear units and motors offered by SEW-EURODRIVE for potentially explosive atmospheres are equipment group II units. SEW-EURODRIVE does not supply any drives for use in equipment group I (mining).

2.4.4 Explosive atmospheres

Potentially explosive atmospheres are divided into gas and dust. The atmosphere is indicated by the letters G (Gas) and D (Dust) in the designation of the variant.

2.4.5 Protection types

Unit type	Protection type	Standard	Description	SEW-relevant
Motors (electrical units)	d	EN 60079-0 and -1	Flameproof enclosure	x
	e	EN 60079-0 and -7	Increased safety	x
	i	EN 60079-0 and -11	Intrinsic safety	
	n / nA	EN 60079-0 and -15	Non-sparking	x
	m	EN 60079-0 and -18	Encapsulation	
	p	EN 60079-0 and -2	Pressurization	
	t	EN 60079-0 and -31	Dust explosion protection	x
Gear units (mechanical units)	b	EN 13463-1 and -6	Protection by monitoring sources of ignition	
	c	EN 13463-1 and -5	Constructional safety	x
	d	EN 13463-1 and -3	Flameproof enclosure	
	fr	EN 13463-1 and -2	Flow restricting	
	k	EN 13463-1 and -8	Liquid immersion	x

2.4.6 Validity of the statement of conformance

The declaration of conformity documents that a device complies with Directive 94/9/EC. The validity of this statement of conformance is bindingly linked to compliance with the operating instructions supplied with the explosion-proof unit (in particular maintenance and servicing measures and permitted ambient conditions, e.g. ambient temperature, unit heating from other customer's equipment). This is necessary for adequate risk minimization. The validity of the declaration of conformity becomes void if the specifications for designated use made in the operating instructions no longer apply.

The validity of the statement of conformance exclusively refers to the gear unit and motor types listed in the catalog or in the order confirmation. For customer-specific types, it is essential that you contact SEW-EURODRIVE.

2.5 Categories and protection types

2.5.1 Category 1 – Particularly high safety

SEW-EURODRIVE does not provide category 1 gear units and electric motors. Consequently, drives from SEW-EURODRIVE cannot be used in zones 0 and 20, where potentially explosive atmospheres are to be expected on a continuous and long-term basis.

2.5.2 Category 2 – High safety

Units in category 2 are safe in terms of the expected unit malfunctions and are predominantly intended for use in zones 1 and 21. Of course, these units can also be used in zones 2 and 22.

2.5.3 Category 3 – Normal safety

Equipment in category 3 is safe when it is used as intended and overload is predictable. These units are designed for zones 2 and 22.

2.5.4 Motors

Typical electrical drives of type II2G for zone 1 are motors with the following protection types:

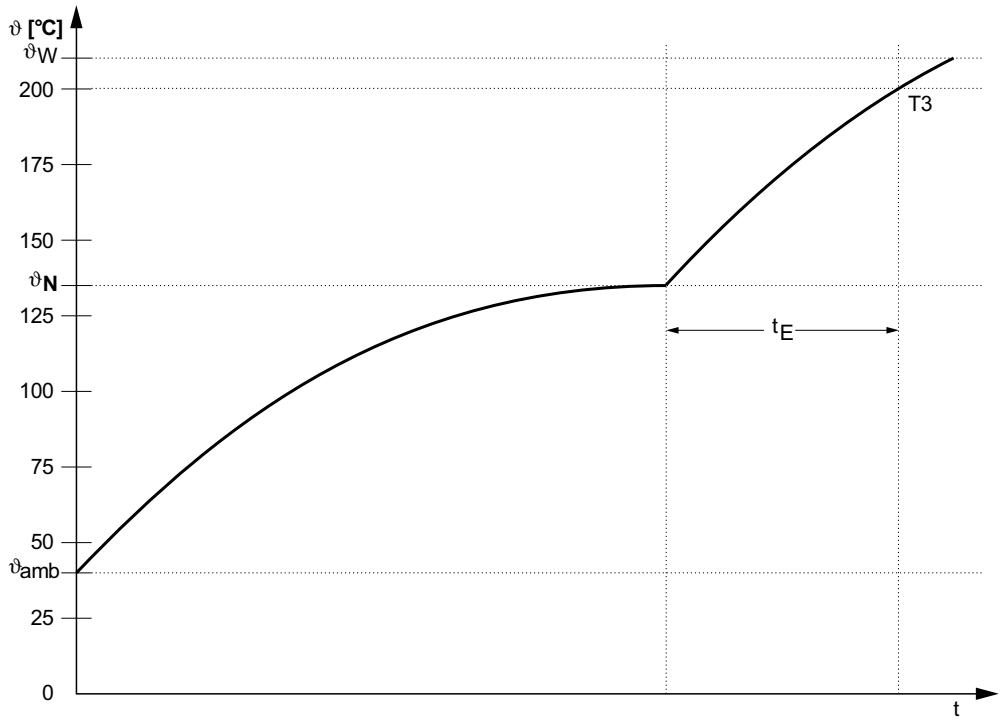
Protection type d – Flameproof enclosure

The housing is able to withstand the pressure even if an explosion occurs inside the motor. Gas which may escape is sufficiently cooled so it will not ignite a potentially explosive atmosphere outside the motor. This is achieved by ignition gaps, which also reduce the pressure that builds up in the event of an explosion.

Protection type e – Increased safety

No source of ignition is present in normal operation and in the event of a foreseeable malfunction. This safety is achieved by design measures such as higher quality insulation systems or larger clearances. Normal operation is operation including the usual equipment malfunctions.

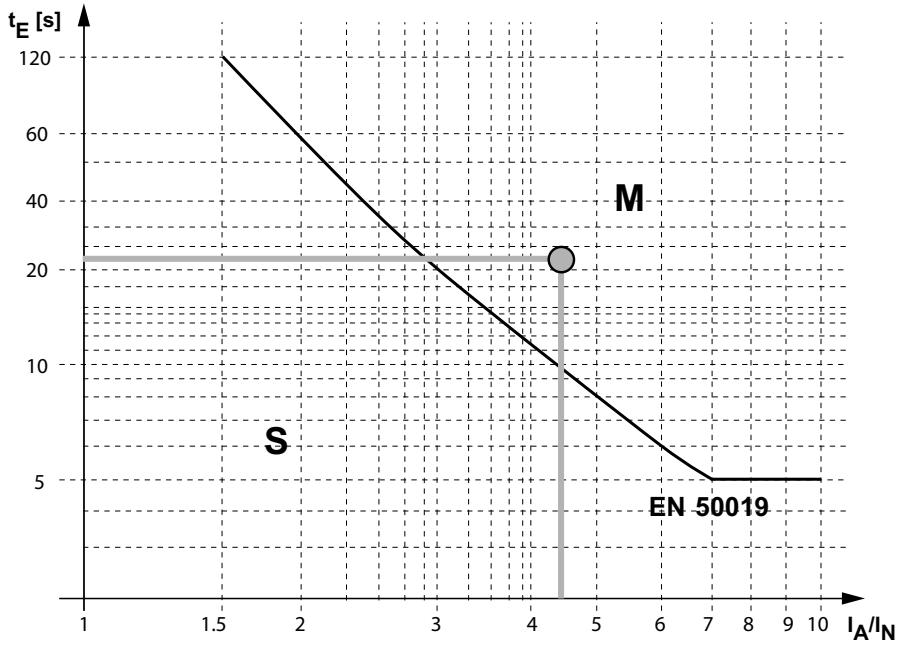
The following graph shows a sample temperature profile on a motor with a blocked shaft. The temperature rises from the nominal temperature ϑ_N to the maximum permitted surface temperature T3 = 200 °C during the heating time t_E.



ϑ_W = maximum permitted winding temperature
ϑ_N = steady-state temperature of the motor in operation without malfunctions
ϑ_{amb} = ambient temperature

A special protective circuit breaker switches off the motor within the motor's heating time t_E if a malfunction occurs. This ensures that the critical temperature (here: temperature class T3) is not reached.

In order to ensure that the protective circuit breaker (S) reacts reliably according to EN 60079, motors (M) with protection type "e" must at least maintain the heating time t_E ratio and the ratio bewtween starting and rated current (I_A/I_N) as shown in the following graph (area above the characteristic curve). The protective circuit breakers (S) must trip first (area below the characteristic curve) to protect the motors against excessive temperature.



S = Area of the protection device
M = Area of the motors

2.5.5 Gear unit

The following protection types apply to gear units:

Protection type c – Constructive safety

Protection type c (constructional safety c) is achieved through constructional measures that provide adequate protection against the possibility of ignition due to hot surfaces, sparks and adiabatic compression caused by moving parts (DIN EN 13463-5).

Protection type k – Liquid immersion

Protection type k (liquid immersion k) is the protection type in which partial or complete immersion in a non-flammable, insulating liquid or constant wetting of a potentially combustible surface with such a liquid is used to deactivate the potential source of ignition or to provide separation from the potentially explosive atmosphere (DIN EN 13463-8).

2.5.6 Category 3 – Normal safety

Category 3 equipment is only intended for zones 2 and 22 where there is a low probability of potentially explosive atmospheres occurring.

Protection type n

Typical electrical drives of the II3G type for zone 2 (gas) are motors with protection type nA – non-sparking. The requirements of protection type n largely correspond to the requirements of protection type e, but for operation without malfunctions.

Protection type t

Protection type t is for motors that are to be used in areas with ignitable dusts. The units are designated with tb (suitable for zone 21) or tc (suitable for zone 22) according to the equipment category.

In this case, explosion protection is realized by safely preventing the ingression of ignitable dust and the occurrence of impermissibly high temperatures on the surface.

For category 3 units with protection type t, a difference is made between:

- Non-conducting dust
- Conducting dust

Depending on the classification of the dust, the units must have a minimum IP rating of

- IP5x
- IP6x

.

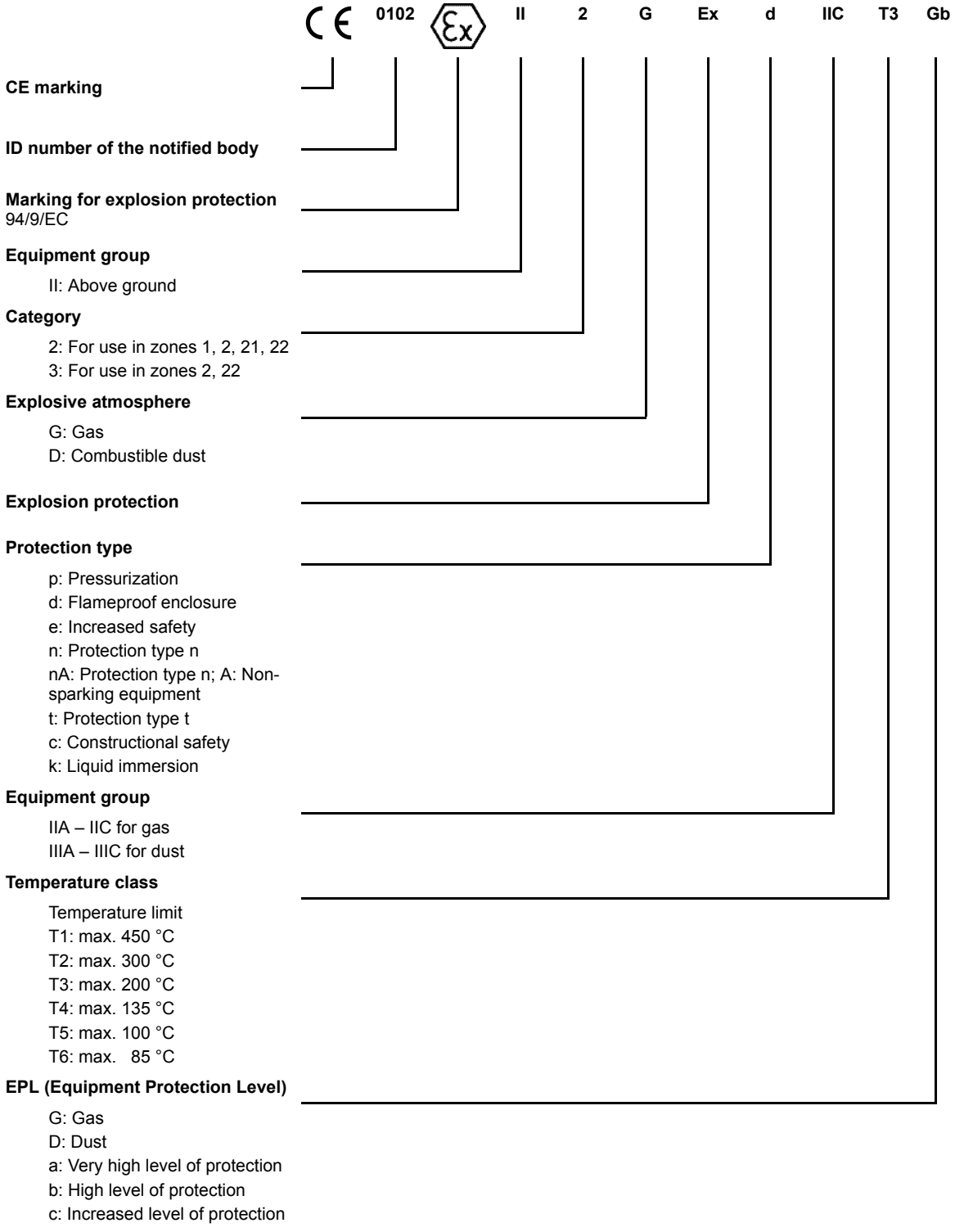
Gear unit

Compliance with DIN EN 13463-1 must be guaranteed for gear units. In this category, no particular type of protection is required for gear units.

2.6 Unit marking according to directive 94/9/EC

The protection types are linked to equipment groups, categories, ex-atmospheres, minimum degrees of protection and temperature classes and are indicated on the nameplate according to EU Directive 94/9/EC.

Example: Tools and fixtures with "flameproof" enclosure.



2.7 Product description

2.7.1 Product features

Operating temperature

Gear units and gearmotors from SEW-EURODRIVE can be operated in a wide ambient temperature range. The following standard temperature ranges are permitted for filling the gear units according to the lubricant table:

Gear unit	Filled with	Permitted standard temperature range
R, F, and K	CLP(CC) VG220	-15 °C to +40 °C
S	CLP(CC) VG680	0 °C to +40 °C
W	CLP(SEW-PG) VG460	-20 °C to +40 °C

The nominal data of the gear units and gearmotors specified in the catalog refer to an ambient temperature of +25 °C.

Gear units and gearmotors from SEW-EURODRIVE can be operated outside the standard temperature range if project planning is adapted to ambient temperatures from as low as up to -40 °C in the intensive cooling range until up to +60 °C. Project planning must take special operating conditions into account and adapt the drive to the ambient conditions by selecting suitable lubricants and seals.

This kind of project planning is generally recommended for increased ambient temperatures as of size 97 and for helical-worm gear units with small gear ratios. SEW-EURODRIVE is happy to carry out this project planning for you.

If the drive is to be operated on a frequency inverter, you must also consider the project planning notes for the inverter and take into account the thermal effects of inverter operation.

Installation altitude

Due to the low air density at high installation altitudes, heat dissipation on the surface of motors and gear units decreases. The rated data listed in the catalog applies to an installation altitude of maximum 1000 m above sea level. Installation altitudes of more than 100 m asl must be taken into account for project planning of gear units and gearmotors.

Power and torque

The power and torque ratings listed in the catalogs refer to mounting position M1 and similar mounting positions in which the input stage is not completely submerged in oil. In addition, the gearmotors are assumed to be standard versions with standard lubrication and under normal ambient conditions.

Noise

The noise levels of all SEW-EURODRIVE gear units, motors and gearmotors are well within the maximum permitted noise levels set forth in the VDI guideline 2159 for gear units and IEC/EN 60034 for motors.

Painting

Gear units from SEW-EURODRIVE are painted as follows:

Gear unit	Coating according to standard 1843
R, F, K, S, W gear units	blue/gray RAL 7031

Special paints are available on request.

Heat dissipation and accessibility

The gearmotors/brakemotors must be mounted on the driven machine in such a way that both axially and radially, there is enough space left for unimpeded air admission and heat dissipation, for maintenance work on the brake and, if required, for the MOVIMOT® inverter. Please also refer to the notes in the motor dimension sheets.

Reduced backlash variant

Helical, parallel-shaft helical and helical-bevel gear units with reduced backlash are available as of gear unit size 37. The circumferential backlash of these gear units is considerably less than that of the standard versions so that positioning tasks can be solved with great precision. The circumferential backlash is specified in angular minutes in the technical data. The circumferential backlash for the output shaft is specified without load (max. 1% of the rated output torque); the gear unit input end is blocked. For further information, refer to chapter "Reduced backlash gear units".

Multi-stage gearmotors

You can achieve particularly low output speeds by using multi-stage gear units or multi-stage gearmotors. This requires a helical gear unit on the input end as a second gear unit.

It may be necessary to limit the motor power to match the maximum permitted output torque of the gear unit.

RM gear units, RM gearmotors

RM gear units and RM gearmotors are a special type of helical gear units with an extended output bearing hub. They were designed especially for agitating applications and allow for high overhung and axial loads and bending moments. The other data are the same as for standard helical gear units and standard helical gearmotors. You can find special project planning notes for RM gearmotors in the "Project Planning/RM gear units" chapter.

SPIROPLAN® right-angle gear units

SPIROPLAN® right-angle gearmotors are robust, single- and two-stage right-angle gearmotors with SPIROPLAN® gearing. The difference to the helical-worm gear units is the material combination of the steel-on-steel gearing, the special tooth meshing relationships and the aluminum housing. As a result, the SPIROPLAN® right-angle gearmotors are wear-free, very quiet-running and lightweight.

The particularly short design and the aluminum housing make for very compact and lightweight drive solutions.

The wear-free gearing and lifetime lubrication make for long periods of maintenance-free operation. The identical hole spacing in the foot and face as well as the same axle height to both makes for a number of mounting options.

Two different flange diameters are available. On request, SPRIOPLAN® right-angle gearmotors can be equipped with a torque arm.

2.7.2 Components on the input side

The following components on the input side are available for the gear units from SEW-EURODRIVE:

- **Input covers with input shaft extension, optionally with**
  - Centering shoulder
  - Backstop
  - Motor mounting platform
- **Adapter**
  - For mounting IEC or NEMA motors with the option of a backstop
  - For mounting servomotors with a square flange
  - With torque limiting safety couplings and speed or slip monitor
  - With hydraulic centrifugal coupling, also with disk brake or backstop

2.7.3 Weight

Please note that all weights shown in the catalogs exclude the oil fill for the gear units and gearmotors. The weights vary according to gear unit design and gear unit size. The lubricant fill depends on the mounting position selected, which means that in this case no universally applicable information can be given. Please refer to "Lubricants" in the "Design and operating notes" chapter for recommended lubricant fill quantities depending on the mounting position. For the exact weight, refer to the order confirmation.

2.7.4 Surface protection

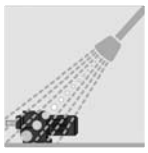
General information

SEW-EURODRIVE offers the following optional protective measure for operating gear units under special environmental conditions.

- Surface protection OS for motors and gear units
- Special optional protective measures for the output shafts are also available.

OS surface protection

Instead of the standard surface protection, the motors and gear units are available with surface protection OS1 to OS4 as an option. The special measure "Z" is also available in addition. Special measure "Z" means that large contour recesses are filled with rubber before painting.

Surface protection,[1]		Ambient conditions	Sample applications
Standard		Suitable for machines and systems in buildings and rooms indoors with neutral atmospheres. Similar to corrosivity category[2]: • C1 (negligible)	• Machines and systems in the automobile industry • Transport systems in logistics • Conveyor belts at airports
OS1		Suited for environments prone to condensation and atmospheres with low humidity or contamination, such as applications outdoors under roof or with protection. According to corrosivity category[2]: • C2 (low)	• Systems in saw mills • Hall gates • Agitators and mixers
OS2		Suited for environments with high humidity or moderate atmospheric contamination, such as applications outdoors subject to direct weathering. According to corrosivity category[2]: • C3 (moderate)	• Applications in amusement parks • Funiculars and chair-lifts • Applications in gravel plants • Systems in nuclear power plants
OS3		Suited for environments with high humidity and occasionally severe atmospheric and chemical contamination. Occasionally acidic or caustic wet cleaning. Also for applications in coastal areas with moderate salt load. According to corrosivity category[2]: • C4 (high)	• Sewage treatment plants • Port cranes • Mining applications
OS4		Suitable for environments with permanent humidity or severe atmospheric or chemical contamination. Regular acidic and caustic wet cleaning, also with chemical cleaning agents. According to corrosivity category[2]: • C5-1 (very high)	• Drives in malting plants • Wet areas in the beverage industry • Conveyor belts in the food industry

1) Motors/brakemotors in degree of protection IP56 or IP66 are only available with OS2, OS3, or OS4 surface protection.

2) According to DIN EN ISO 12944-2, classification of ambient conditions

Special protection measures

Gearmotor output shafts can be treated with special optional protective measures for operation subject to severe environmental pollution or in particularly demanding applications.

Measure	Protection principle	Suitable for
Fluorocarbon rubber oil seal (Viton)	High quality material	Drives subject to chemical contamination
Coating on output shaft end	Surface coating of the contact surface of the oil seal	Severe environmental impact and in conjunction with fluorocarbon rubber oil seal (Viton)
Output shaft made of stainless steel	Surface protection with high-quality material	Particularly demanding applications in terms of surface protection

NOCO® fluid

As standard, SEW-EURODRIVE supplies NOCO® fluid corrosion protection and lubricant with every hollow shaft gear unit. Use NOCO® fluid when installing hollow shaft gear units. Using this fluid can help prevent contact corrosion and makes it easier to disassemble the drive at a later time. NOCO® fluid is also suitable for protecting machined metal surfaces that do not have corrosion protection, such as parts of shaft ends or flanges. You can also order NOCO® fluid in larger quantities from SEW-EURODRIVE.

NOCO® fluid is a food grade substance according to NSF-H1. The food-grade NOCO® fluid has a corresponding NSF-H1 label on the packaging.

2.7.5 Extended storage

Variant

You can also order gear units designed for "extended storage". SEW-EURODRIVE recommends the extended storage type for storage periods longer than 9 months.

The lubricant of those gear units is then mixed with a VCI anti-corrosion agent (**v**olatile **c**orrosion **i**nhibitors). Please note that this VCI anti-corrosion agent is only effective in a temperature range of -25 °C to +50 °C. The flange contact surfaces and shaft ends are also treated with an anti-corrosion agent. If not specified otherwise in your order, the gear unit with "extended storage" option will be supplied with OS1 surface protection. Instead of OS1, you can order OS2, OS3 or OS4.

Surface protection	Suitable for
OS1	Low environmental impact
OS2	Medium environmental impact
OS3	High environmental impact
OS4	Very high environmental impact

INFORMATION

The gear units must remain tightly sealed until taken into operation to prevent the VCI corrosion protection agent from evaporating.

At the factory, the gear units are filled with oil to the appropriate level depending on the specified mounting position (M1 – M6). Always check the oil level before you take the gear unit into operation.

Storage conditions

Observe the storage conditions specified in the following table for extended storage:

Climate zone	Packaging[1)]	Storage[2)]	Storage duration
Temperate (Europe, USA, Canada, China and Russia, excluding tropical zones)	Packed in containers, with desiccant and moisture indicator sealed in the plastic wrap.	Under roof, protected against rain and snow, no shock loads.	Up to 3 years with regular checks of the packaging and moisture indicator (rel. humidity < 50%).
	Open	Under roof and enclosed at constant temperature and atmospheric humidity (5 °C < ϑ < 60 °C, < 50% relative humidity). No sudden temperature fluctuations. Controlled ventilation with filter (free from dust and dirt). No aggressive vapors, no shocks.	2 years or more with regular inspections. Check for cleanliness and mechanical damage during inspection. Check corrosion protection.
Tropical (Asia, Africa, Central and South America, Australia, New Zealand excluding temperate zones)	Packed in containers, with desiccant and moisture indicator sealed in the plastic wrap. Protected against insect damage and mildew by chemical treatment.	With roof, protected against rain and shocks.	Up to 3 years with regular checks of the packaging and moisture indicator (rel. humidity < 50%).
	Open	Under roof and enclosed at constant temperature and atmospheric humidity (5 °C < ϑ < 50 °C, < 50% relative humidity). No sudden temperature fluctuations. Controlled ventilation with filter (free from dust and dirt). No aggressive vapors, no shocks. Protected against insect damage.	2 years or more with regular inspections. Check for cleanliness and mechanical damage during inspection. Check corrosion protection.

1) The packaging must be carried out by an experienced company using the packaging materials that have been explicitly specified for the particular application.

2) SEW-EURODRIVE recommends to store the gear units according to the mounting position.

3 Overview of Types and Type Designations

3.1 Design variants and gear unit options

Below an overview of type designations for R, F, K, S, and W gear units and their options.

3.1.1 Helical gear unit

Designation	
RX..	Single-stage foot-mounted design
RXF..	Single-stage B5 flange-mounted
R..	Foot-mounted
R..F	Foot-mounted and B5 flange-mounted
RF..	B5 flange-mounted
RZ..	B14 flange-mounted
RM..	B5 flange-mounted type with extended bearing hub

3.1.2 Parallel-shaft helical gear unit

Designation	
F..	Foot-mounted
FA..B	Foot-mounted and hollow shaft
FH..B	Foot-mounted and hollow shaft with shrink disk
FV..B	Foot-mounted and hollow shaft with splined hollow shaft to DIN 5480
FF..	B5 flange-mounted
FAF..	B5 flange-mounted and hollow shaft
FHF..	B5 flange-mounted and hollow shaft with shrink disk
FVF..	B5 flange-mounted and hollow shaft with splined hollow shaft to DIN 5480
FA..	Hollow shaft
FH..	Hollow shaft with shrink disk
FT..	Hollow shaft with TorqLOC® hollow shaft mounting system
FV..	Hollow shaft with splining to DIN 5480
FAZ..	B14 flange-mounted and hollow shaft
FHZ..	B14 flange-mounted and hollow shaft with shrink disk
FVZ..	B14 flange-mounted and hollow shaft with splined hollow shaft to DIN 5480

3.1.3 Helical-bevel gear unit

Designation	
K..	Foot-mounted
KA..B	Foot-mounted and hollow shaft
KH..B	Foot-mounted and hollow shaft with shrink disk
KV..B	Foot-mounted and hollow shaft with splined hollow shaft to DIN 5480
KF..	B5 flange-mounted
KAF..	B5 flange-mounted and hollow shaft
KHF..	B5 flange-mounted and hollow shaft with shrink disk
KVF..	B5 flange-mounted and hollow shaft with splined hollow shaft to DIN 5480
KA..	Hollow shaft
KH..	Hollow shaft with shrink disk
KT..	Hollow shaft with TorqLOC® hollow shaft mounting system
KV..	Hollow shaft with splining to DIN 5480
KAZ..	B14 flange-mounted and hollow shaft
KHZ..	B14 flange-mounted and hollow shaft with shrink disk
KVZ..	B14 flange-mounted and hollow shaft with splined hollow shaft to DIN 5480

3.1.4 Helical-worm gear unit

Designation	
S..	Foot-mounted
SF..	B5 flange-mounted
SAF..	B5 flange-mounted and hollow shaft
SHF..	B5 flange-mounted and hollow shaft with shrink disk
SA..	Hollow shaft
SH..	Hollow shaft with shrink disk
ST..	Hollow shaft with TorqLOC® hollow shaft mounting system
SAZ..	B14 flange-mounted and hollow shaft
SHZ..	B14 flange-mounted and hollow shaft with shrink disk

3.1.5 SPIROPLAN® gear unit

Designation	
W..	Foot-mounted
WF..	Flange-mounted
WAF..	Flange-mounted variant and hollow shaft
WA..	Hollow shaft
WA..B	Foot-mounted and hollow shaft
WH..B	Foot-mounted and hollow shaft with shrink disk
WHF..	Flange-mounted, hollow shaft with shrink disk
WH..	Hollow shaft with shrink disk
WT..	Hollow shaft with TorqLOC® hollow shaft mounting system

3.1.6 Options

R, F and K gear units:

Designation	
/R	Reduced backlash

K, S and W gear units:

Designation	
/T	With torque arm

F gear units:

Designation	
/G	With rubber buffer

3.2 Design variants and options of the EDR motor series

The type designations of the EDR motor series and its options are listed below.

3.2.1 Designation of the motors

Designation	
EDRS..	ATEX motor, 50 Hz
EDRE..	ATEX energy-efficient motor, High Efficiency IE2, 50 Hz
71 – 225	Sizes: 71 / 80 / 90 / 100 / 112 / 132 / 160 / 180 / 200 / 225
S – L, LC	Lengths: S = short / M = medium / L = long LC = Rotors with copper cage
4	Number of poles

3.2.2 Output variants

Designation	Category	Option
/FI	/2G, /2GD /3D, /3GD	IEC foot-mounted motor with specification of shaft height
/FG		7 series integral motor, as stand-alone motor
/FF		IEC flange-mounted motor with bore holes
/FT		IEC flange-mounted motor with threads
/FL		General flange-mounted motor (other than IEC)
/FM		7-series integral gearmotor with IEC feet, with specification of shaft height if required
/FE		IEC flange-mounted motor with bore holes and IEC feet, with specification of shaft height
/FY		IEC flange-mounted motor with thread and IEC feet, with specification of shaft height if required
/FK		General flange-mounted motor (other than IEC) with feet, with specification of shaft height if required

3.2.3 Mechanical attachments

Designation	Category	Option
BE..	/3GD, /3D	Spring-loaded brake with specification of size
HR	/3GD, /3D	Manual brake release of the brake, automatic disengaging function
HF	/3GD, /3D	Manual brake release, lockable
/RS	/3GD	Backstop

3.2.4 Temperature sensor / temperature detection

Designation	Category	Option
/TF	/2G, /2GD /3D, /3GD	Temperature sensor (PTC resistor)
/KY	/2G, /2GD /3D, /3GD	One KTY84 – 130 sensor
/PT	/2G, /2GD /3D, /3GD	One/three PT100 sensor(s)

3.2.5 Encoder

Designation	Category	Option
/ES7S, /EG7S, /EV7S	/3D, /3GD	Mounted speed sensor with sin/cos interface
/ES7R, /EG7R, /EV7R		Mounted speed sensor with TTL (RS-422) interface, V = 9 – 26 V
/ES7C, /EG7C, /EV7C		Mounted speed sensor with HTL interface
/AS7W, /AG7W, /AV7W		Mounted absolute encoder, RS-485 interface (multi-turn)
/AS7Y, /AG7Y, /AV7Y		Mounted absolute encoder, SSI interface (multi-turn)
/ES7A, /EG7A		Mounting adapter for encoders from the SEW portfolio
/XV.A		Mounting adapter for non-SEW encoders
/XV..		Mounted non-SEW encoders

3.2.6 Connection options

Designation	Category	Included in the scope of delivery
/KCC	/2G, /2GD /3D, /3GD	Terminal strip with cage clamps (for DR.71 – DR.132)

3.2.7 Ventilation

Designation	Category	Option
/VE	/3D, /3GD	Forced cooling fan for motors according to 94/9/EC, category 3 (gas / dust)
/AL	/2G, /2GD /3D, /3GD	Metal fan
/C	/2G, /2GD /3D, /3GD	Protection canopy for the fan guard

3.2.8 Explosion-proof motors

Category	Option
/2G	Motors according to 94/9/EC, category 2 (gas)
/2GD	Motors according to 94/9/EC, category 2 (gas / dust)
/3D	Motors according to 94/9/EC, category 3 (dust)
/3GD	Motors according to 94/9/EC, category 3 (gas / dust)

3.2.9 Other additional features

Designation	Category	Option
/2W	/2G, /2GD /3D, /3GD	Second shaft end on the motor/brakemotor

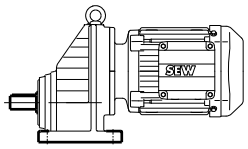
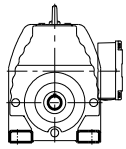
3.3 Gearmotor types

INFORMATION

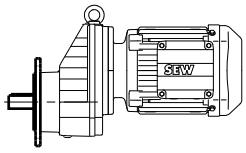
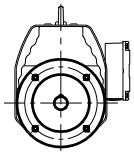
The types described in this chapter refer to DR gearmotors from SEW-EURODRIVE. They also apply to gear units without motors.

3.3.1 Helical gearmotors

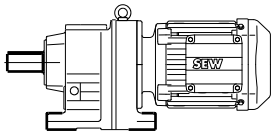
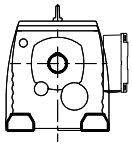
The following types of helical gearmotors are available:

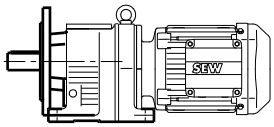
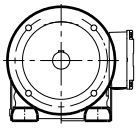
RX..EDR..
Single-stage helical gearmotor in foot-mounted design

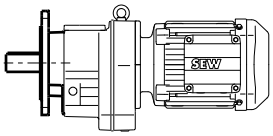
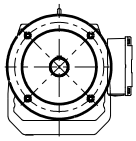
RXF..EDR..
Single-stage helical gearmotor in B5 flange-mounted design

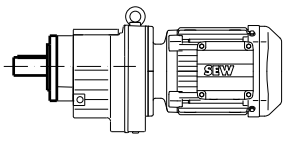
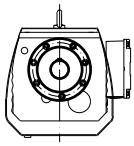
R..EDR..
Foot-mounted helical gearmotor

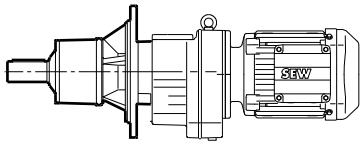
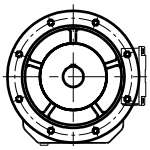
R..F EDR..
Foot and B5 flange-mounted helical gearmotor

RF..EDR..
B5 flange-mounted helical gearmotor

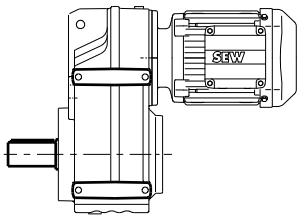
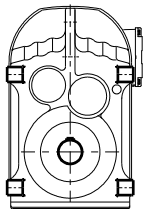
RZ..EDR..
B14 flange-mounted helical gearmotor

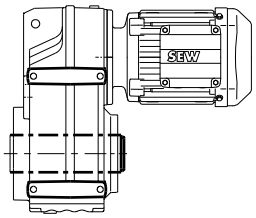
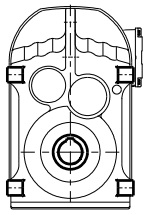
RM..EDR..
B5 flange-mounted helical gearmotor with extended bearing hub

3.3.2 Parallel-shaft helical gearmotors

The following types of parallel-shaft helical gearmotors are available:

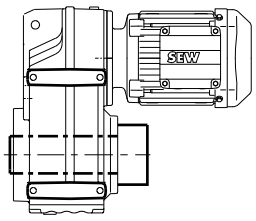
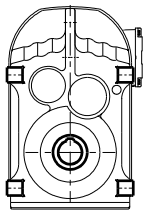



F..EDR..
Foot-mounted parallel-shaft helical gearmotor

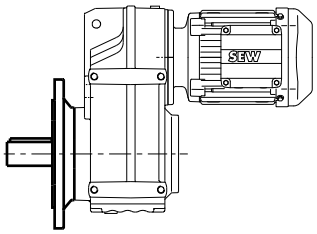
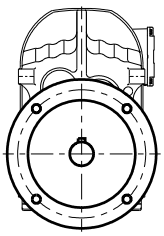



FA..B EDR..
Foot-mounted parallel-shaft helical gearmotor with hollow shaft

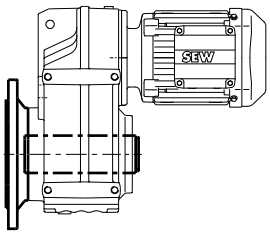
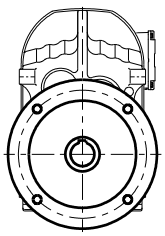
FV..B EDR..
Foot-mounted parallel-shaft helical gearmotor with hollow shaft and splined hollow shaft to DIN 5480

FH..B EDR..
Foot-mounted parallel-shaft helical gearmotor with hollow shaft and shrink disk

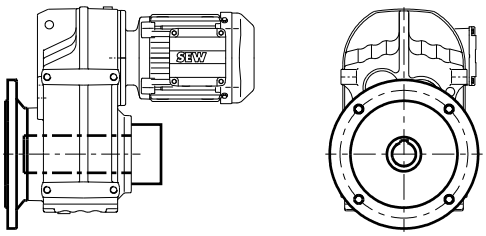



FF..EDR..
B5 flange-mounted parallel-shaft helical gearmotor

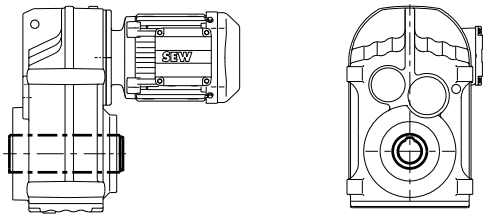



FAF..EDR..
B5 flange-mounted parallel-shaft helical gearmotor with hollow shaft

FVF..EDR..
Parallel-shaft helical gearmotor in B5 flange-mounted version with hollow shaft and splined hollow shaft to DIN 5480

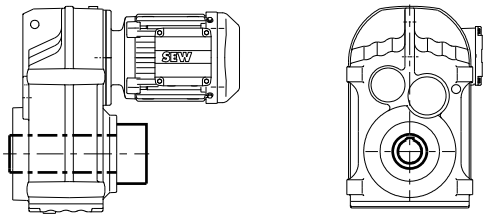


FHF..EDR..
B5 flange-mounted parallel-shaft helical gearmotor with hollow shaft and shrink disk



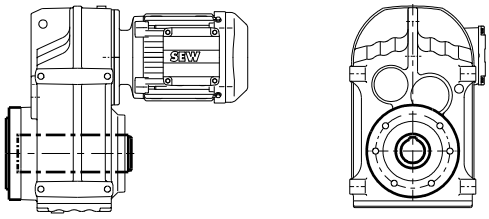
FA..EDR..
Parallel-shaft helical gearmotor with hollow shaft

FV..EDR..
Parallel-shaft helical gearmotor with hollow shaft and splined hollow shaft to DIN 5480



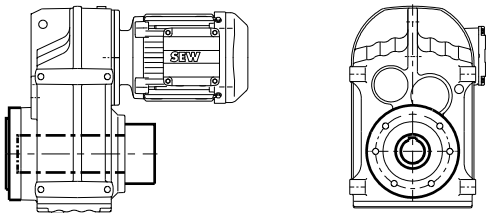
FH..EDR..
Parallel-shaft helical gearmotor with hollow shaft and shrink disk

FT..EDR..
Parallel-shaft helical gearmotor with hollow shaft and TorqLOC® hollow shaft mounting system



FAZ..EDR..
B14 flange-mounted parallel-shaft helical gearmotor with hollow shaft

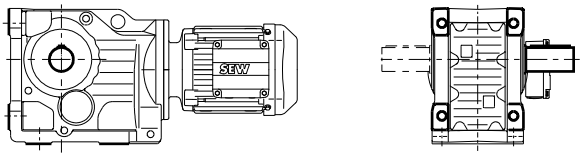
FVZ..EDR..
Parallel-shaft helical gearmotor in B14 flange-mounted design with hollow shaft and splined hollow shaft to DIN 5480



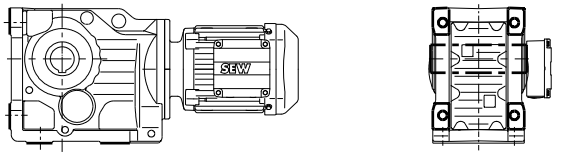
FHZ..EDR..
B14 flange-mounted parallel-shaft helical gearmotor with hollow shaft and shrink disk

3.3.3 Helical-bevel gearmotors

The following types of helical-bevel gearmotors are available:

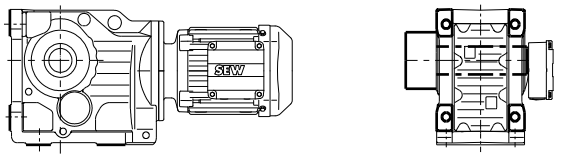


K..EDR..
Foot-mounted helical-bevel gearmotor

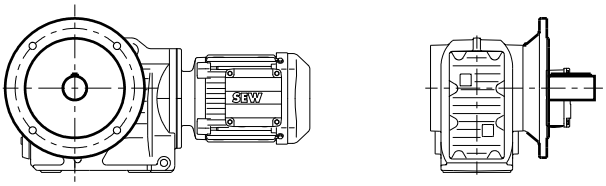


KA..B EDR..
Helical-bevel gearmotor in foot-mounted design with hollow shaft

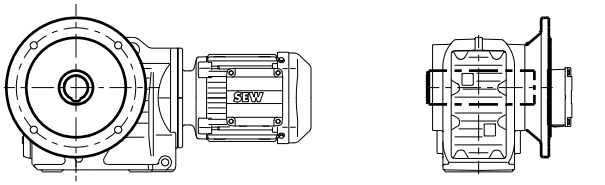
KV..B EDR..
Foot-mounted helical-bevel gearmotor with hollow shaft and splined hollow shaft to DIN 5480



KH..B EDR..
Foot-mounted helical-bevel gearmotor with hollow shaft and shrink disk

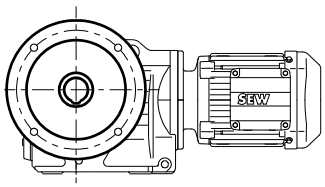
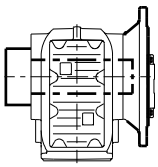


KF..EDR..
B5 flange-mounted helical-bevel gearmotor

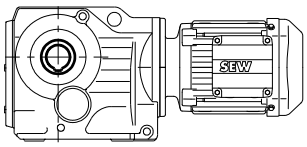
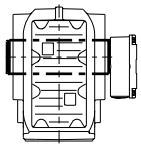


KAF..EDR..
B5 flange-mounted helical-bevel gearmotor with hollow shaft

KVF..EDR..
Helical-bevel gearmotor in B5 flange-mounted design with hollow shaft and splined hollow shaft to DIN 5480

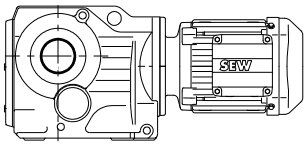
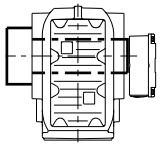



KHF..EDR..
B5 flange-mounted helical-bevel gearmotor with hollow shaft and shrink disk

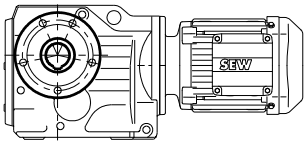
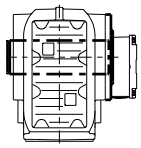
KA..EDR..
Helical-bevel gearmotor with hollow shaft

KV..EDR..
Helical-bevel gearmotor with hollow shaft and splined hollow shaft to DIN 5480

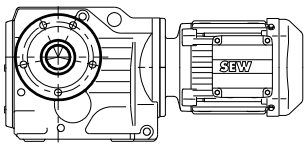
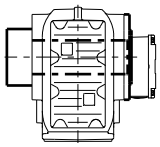
KH..EDR..
Helical-bevel gearmotor with hollow shaft and shrink disk

KT..EDR..
Helical-bevel gearmotor with hollow shaft and TorqLOC® hollow shaft mounting system

KAZ..EDR..
B14 flange-mounted helical-bevel gearmotor with hollow shaft

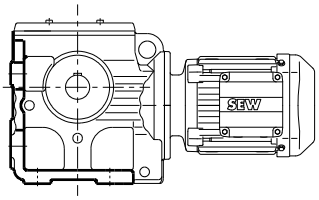
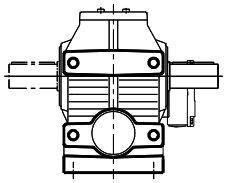
KVZ..EDR..
B14 flange-mounted helical-bevel gearmotor with hollow shaft and splined hollow shaft to DIN 5480

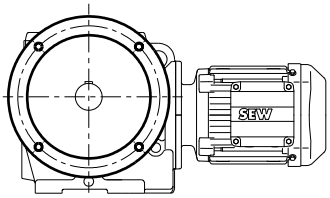
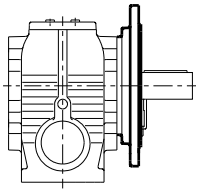
KHZ..EDR..
B14 flange-mounted helical-bevel gearmotor with hollow shaft and shrink disk

3.3.4 Helical-worm gearmotors

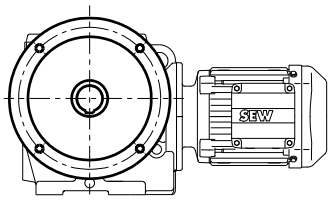
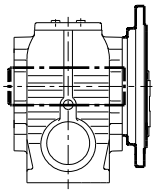
The following types of helical-worm gearmotors are available:

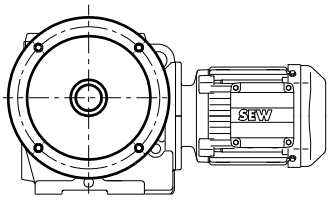
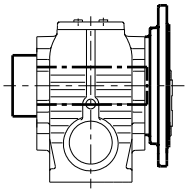
S..EDR..
Foot-mounted helical-worm gearmotor

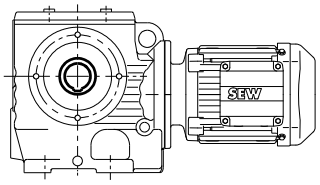
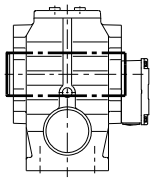
SF..EDR..
B5 flange-mounted helical-worm gearmotor

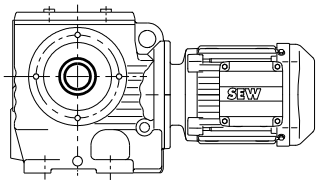
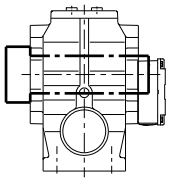
SAF..EDR..
B5 flange-mounted helical-worm gearmotor with hollow shaft

SHF..EDR..
B5 flange-mounted helical-worm gearmotor with hollow shaft and shrink disk

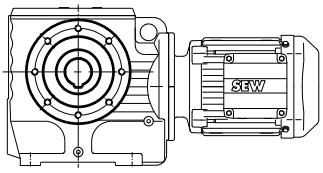
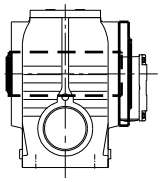



SA..EDR..
Helical-worm gearmotor with hollow shaft

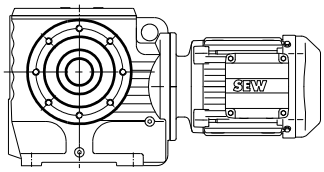
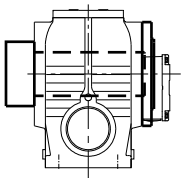



SH..EDR..
Helical-worm gearmotor with hollow shaft and shrink disk

ST..EDR..
Helical-worm gearmotor with hollow shaft and TorqLOC® hollow shaft mounting system

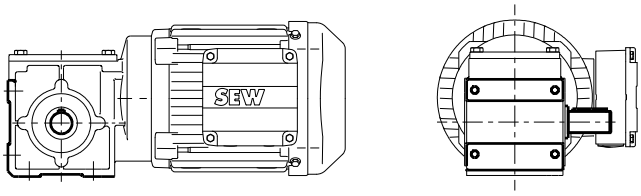
SAZ..EDR..
B14 flange-mounted helical-worm gearmotor with hollow shaft

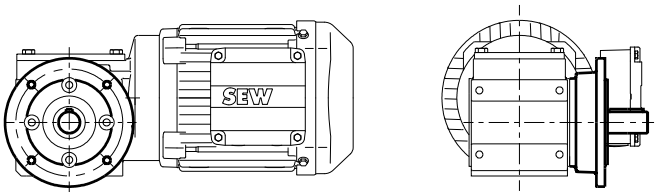
SHZ..EDR..
B14 flange-mounted helical-worm gearmotor with hollow shaft and shrink disk

3.3.5 SPIROPLAN® gearmotors

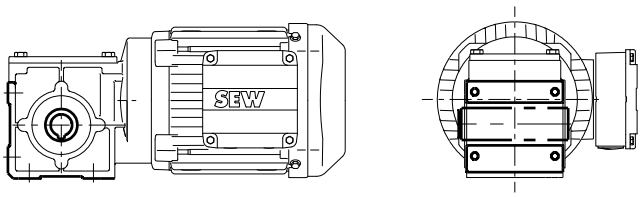
The following variants of SPIROPLAN® gearmotors size W..20 to W..47 are available:



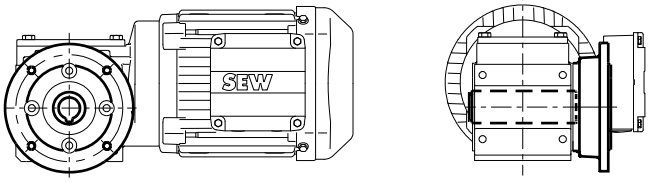
W..EDR..
Foot-mounted SPIROPLAN® gearmotor



WF..EDR..
Flange-mounted SPIROPLAN® gearmotor

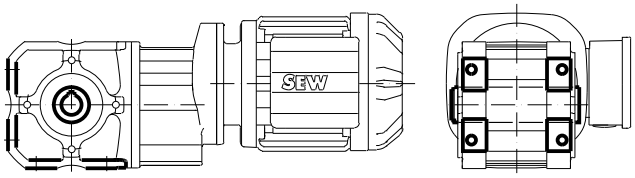


WA..EDR..
SPIROPLAN® gearmotor with hollow shaft

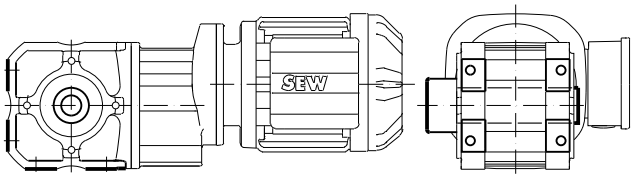


WAF..EDR..
Flange-mounted SPIROPLAN® gearmotor with hollow shaft

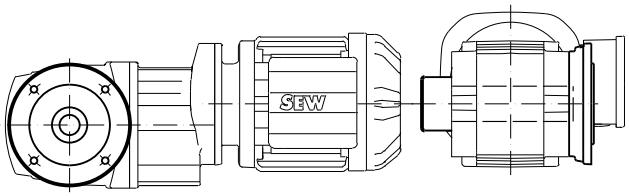
Additionally, the following variants of SPIROPLAN® gearmotors size W..37 and W..47 are available:



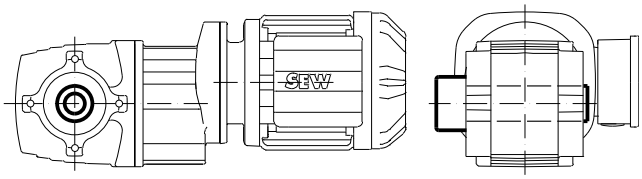
WA..B EDR..
Foot-mounted SPIROPLAN® gearmotor with hollow shaft



WH..B EDR..
Foot-mounted SPIROPLAN® gearmotor with hollow shaft and shrink disk



WHF.. EDR..
Flange-mounted SPIROPLAN® gearmotor with hollow shaft and shrink disk



WH.. EDR..
SPIROPLAN® gearmotor with hollow shaft and shrink disk

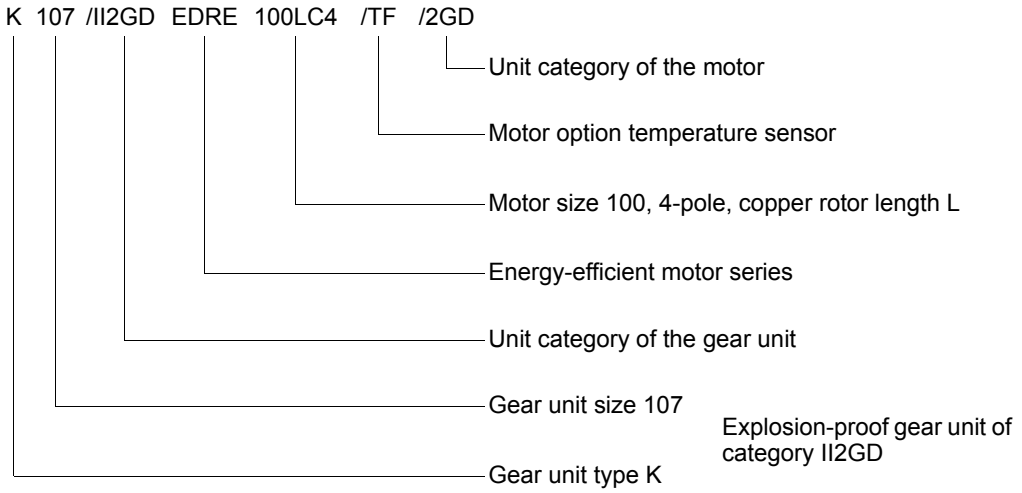
WT.. EDR..
SPIROPLAN® gearmotor with hollow shaft and TorqLOC®

3.4 Sample type designation of an EDR. gearmotor

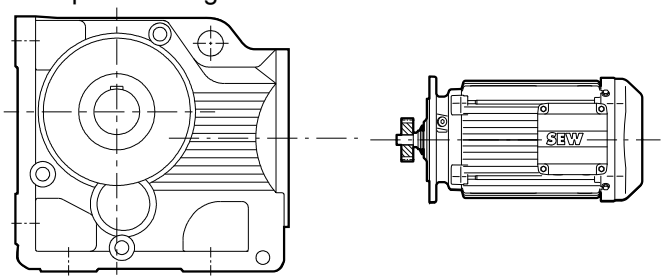
The type designation of the gearmotor starts from the component on the output end.

SEW-EURODRIVE specifies the unit category in the type designation according to Directive 94/9/EC.

For instance, an explosion-proof helical-bevel gearmotor with temperature sensor in the motor winding has the following type designation:



Example: EDRE gearmotor

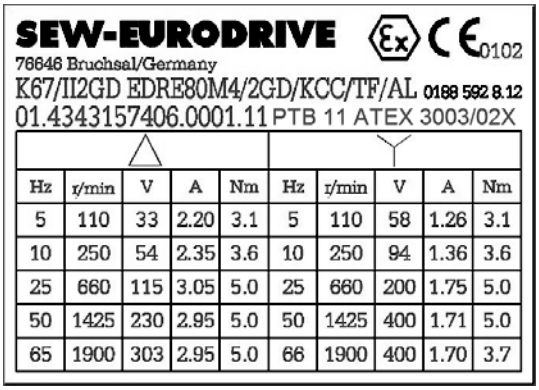


K107 EDRE100LC4/TF

Nameplates of a gearmotor of category 2 for frequency inverter operation.







SEW-EURODRIVE 0102
76646 Bruchsal/Germany
K67/II2GD EDRE80M4/2GD/KCC/TF/AL 0188 592 8.12
01.4343157406.0001.11 PTB 11 ATEX 3003/02X

△					Y				
Hz	r/min	V	A	Nm	Hz	r/min	V	A	Nm
5	110	33	2.20	3.1	5	110	58	1.26	3.1
10	250	54	2.35	3.6	10	250	94	1.36	3.6
25	660	115	3.05	5.0	25	660	200	1.75	5.0
50	1425	230	2.95	5.0	50	1425	400	1.71	5.0
65	1900	303	2.95	5.0	66	1900	400	1.70	3.7

4 Project Planning

4.1 Drive and gear unit selection data

Certain data of the application have to be provided to being able to precisely define the components for your drive. The abbreviations used for project planning are summarized in the following table:

Designation	Meaning	Unit
ϕ	Rotational clearance	`
η	Gear unit efficiency for M_{apk}	
a, b, f	Gear unit constants as regards the overhung load conversion	mm
c	Gear unit constants as regards the overhung load conversion	Nmm
a_0, a_1, a_2	Gear unit constants as regards the rise in temperature in the gear unit	
F_A	Axial load (tension and compression) on the output shaft	N
f_k	Speed ratio	
F_R	Overhung load on the output shaft	N
F_{Rapk}	Maximum permitted overhung load at the output shaft for short-time duty (load application point is the middle of the shaft end)	N
F_{Ramax}	Maximum permitted overhung load at the output shaft for continuous duty (load application point is the middle of the shaft end)	N
F_{Repk}	Maximum permitted overhung load at the input shaft for short-time duty (load application point is the middle of the shaft end)	N
F_{Remax}	Maximum permitted overhung load at the input shaft for continuous duty (load application point is the middle of the shaft end)	N
H	Installation altitude	m above sea level NN
I_0	Current consumption of the motor at M_0	A
I_{max}	Maximum permitted motor current (root-mean-square value)	A
Ins. cl.	Thermal classification of the motor	
i	Gear unit reduction ratio	
IM	Gear unit mounting position (international mounting position) M1 – M6	
IP..	Degree of protection according to IEC60034-5	
J_A	Mass moment of inertia of the adapter	kgm^2
J_G	Mass moment of inertia of the gear unit with reference to the input shaft	kgm^2
J_{GA}	Mass moment of inertia of the gear unit including adapter with reference to the input shaft	kgm^2
J_{ext}	Mass moment of inertia (external) reduced on motor shaft	kgm^2
J_{Mot}	Mass moment of inertia of the motor	kgm^2
J_L	Mass moment of inertia of the load	kgm^2
k	Inertia ratio J_{ext} / J_{Mot}	
l	Length of output shaft	mm
M_1 – M_n	Output torque in time period t_1 to t_n	Nm
M_0	Thermally permitted output torque of the motor in continuous duty at low speed (not to be confused with standstill torque)	Nm

Table continued on next page.

Designation	Meaning	Unit
M_a^{DYN}	Dynamic output torque assumed for the drive in project planning	Nm
M_{aeff}	Effective torque for component testing calculated in project planning	Nm
M_{akub}	Effective torque for bearing testing calculated in project planning	Nm
M_{amax}	Maximum permitted output torque for continuous duty	Nm
M_{apk}	Maximum permitted output torque for short-time duty	Nm
$M_{aNOTAUS}$	Maximum permitted output emergency stop torque, max. 1000 emergency stops	Nm
M_{ath}	Effective torque for thermal testing calculated in project planning	Nm
M_B	Rated brake torque	Nm
M_{pk}	Dynamic limit torque of the servomotor	Nm
M_{eff}	Effective torque requirement (in relation to the motor)	Nm
M_{max}	Maximum output torque assumed for the drive in project planning	Nm
ML	Mounting location (UL)	
n_{apk}	Maximum permitted output speed for short-time duty	rpm
n_{epk}	Maximum permitted input speed for short-time duty	rpm
n_{em}	Mean input speed	rpm
n_{am}	Mean output speed	rpm
n_{ak}	Breakpoint speed (output)	rpm
n_N	Nominal speed	rpm
$n_1 – n_n$	Output speed in time period t_1 to t_n	rpm
n_{etn_pk}	Maximum input speed in time period n	rpm
P_{Br}	Braking power	W
P_{Br_pk}	Peak braking power	W
P_{Br_eff}	Effective braking power	W
P_{Br_tn}	Braking power in time period t_n	W
S.., ..% cdf	Duty type and cyclic duration factor cdf in %; the exact load cycle can be entered instead.	
$t_1 – t_n$	Time period 1 to n	s
t_z	Cycle time	s
T_{Amb}	Ambient temperature	°C
U_{sys}	System voltage, voltage of the supplying inverter	V
U_{Br}	Operating voltage of the brake	V
x	Distance between overhung load application point and shaft shoulder	mm
F_{Rmax}	Calculated auxiliary variable	
F_{Rkub}	Calculated auxiliary variable	

4.1.1 Determining the application data

It is necessary to have data on the machine to be driven (mass, speed, setting range, etc.) to project the drive correctly.

This data helps to determine the required power, torque and speed. Refer to the SEW publication "Drive Engineering - Practical Implementation / Drive Planning" or the SEW project planning tool "SEW Workbench" for assistance.

4.1.2 Selecting the correct drive

The appropriate drive can be selected once the power and speed of the drive have been calculated and with regard to mechanical requirements.

4.1.3 Required motor data

As the dimensions of servomotors are not standardized, the following motor data must be known to select the appropriate adapter:

- Shaft diameter and length
- Flange dimensions (edge length, diameter, centering shoulder and hole circle)
- Maximum torque

SEW-EURODRIVE will gladly assist you with selection and project planning.

4.2 Project planning procedure for EDR. drives – line powered

The following flow diagram illustrates the project planning procedure for a line-powered drive.

You find detailed information on the project planning for EDR. motors in the "Explosion-Proof AC Motors" catalog.

Necessary information regarding the machine to be driven
- Data of the application

Calculation of the relevant application data
- Torque
- Power
- Speeds
- Overhung and axial loads
- Travel diagram

↓

Drive selection
- Selection of the gear unit type
  - Determining the necessary service factor
  - Select the gearmotor using the selection tables for the appropriate unit categories
  - Selection of the necessary braking torque, brake size, and brake control

↓

Select the options
- Brake
- Manual brake release
- Backstop
- 2. Shaft end

↓

Make sure that
- the permitted overhung and axial loads are not exceeded
- the permitted starting frequency is not exceeded
- the maximally permitted braking work per switching operation is not exceeded.

4.3 Project planning procedure for EDR. drives – inverter powered

The following flow diagram illustrates the project planning procedure for a drive. The drive consists of a gearmotor that is powered by an inverter.

For detailed information about project planning for EDR. motors refer to the "Explosion-Proof AC Motors" catalog.

Necessary information regarding the machine to be driven
- Data of the application

Calculation of the relevant application data
- Torque
- Power
- Regenerative power
- Speeds
- Overhung and axial loads
- Travel diagram

↓

Drive selection
- Selection of the gear unit type
- Selection of the gear unit size and gear unit ratio
- Checking the conditions of the typical application
- Calculation of the motor terminal voltage only if the conditions of the typical application are not fulfilled
- Determination of the necessary motor speed based on the gear unit ratio and the necessary control range. Maximum input speed = 1500 rpm For speeds > 1500 rpm, please contact SEW-EURODRIVE.
- Calculating the motor terminal voltage
- Observe dynamic and thermal torque curves
- Selection of the required motor size
- Select a gearmotor combination using the selection tables for the appropriate unit categories
- Necessary option: Motors must be fitted with a "TF" PTC temperature sensor.

↓

Selection of motor options
- Brake
- Encoder
- Forced cooling fan

↓

Make sure that
- the permitted overhung and axial loads are not exceeded
- the limit speed of the motor is not exceeded

↓

Selecting the inverter
- Observing the motor/inverter assignment
- Continuous power and peak power in voltage-controlled inverters
- Continuous current and peak current in current-controlled inverters
- A braking resistor must always be selected, regardless of the duty type

↓

Options
- Sinus filter
- EMC measures
- Communication

4.4 Project planning information – R, F, K, S, W gear units

4.4.1 Efficiency of gear units

General information

The efficiency of gear units is mainly determined by the gearing and bearing friction. Keep in mind that the starting efficiency of a gear unit is always less than its efficiency at operating speed. This factor is especially pronounced in the case of helical-worm and SPIROPLAN® right-angle gearmotors.

R, F, K gear units

The efficiency of helical, parallel-shaft and helical-bevel gear units varies with the number of gear stages, between 96 % (3-stage), 97 % (2-stage) and 98 % (1-stage).

S and W gear units

The gearing in helical-worm and SPIROPLAN® gear units produces a high proportion of sliding friction. As a result, these gear units have higher gearing losses than R, F or K gear units and therefore lower efficiency.

The efficiency depends on the following factors:

- Gear ratio of the helical-worm or SPIROPLAN® stage
- Input speed
- Gear unit temperature

Helical-worm gear units from SEW-EURODRIVE are helical gear/worm combinations that are significantly more efficient than plain worm gear units.

The efficiency may reach $\eta < 0.5$ if the helical-worm gear stage has a very high gear ratio.

The SPIROPLAN® W37/W47 gear units from SEW-EURODRIVE have an efficiency of more than 90 %, which drops only slightly even for large gear unit ratios.

Self-locking

Retrodriving torque in helical-worm or SPIROPLAN® gear units produces an efficiency of $\eta' = 2 - 1/\eta$, which is significantly less favorable than the forward efficiency η. The helical-worm or SPIROPLAN® gear unit is self-locking if the forward efficiency η is ≤ 0.5. Some SPIROPLAN® gear units are dynamically self-locking. Contact SEW-_EURODRIVE if you want to make technical use of the braking effect of self-locking characteristics.

INFORMATION

Note that the self-locking effect of helical-worm or SPIROPLAN® gear units is not permitted as the sole safety function for hoists.

Run-in phase

The tooth flanks of new helical-worm and SPIROPLAN® gear units are not yet completely smooth. This makes for a greater friction angle and less efficiency during the run-in phase than during later operation. This effect intensifies with increasing gear unit ratio. Subtract the following values from the listed efficiency during the running-in phase:

	Worm gear	
	i range	**η reduction**
1-start	About 50 – 280	About 12 %
2-start	About 20 – 75	About 6 %
3-start	About 20 – 90	About 3 %
5-start	About 6 – 25	About 3 %
6-start	About 7 – 25	About 2 %

i range	**SPIROPLAN® W.. η reduction**
About 30 – 75	About 8 %
About 10 – 30	About 5 %
About 3 – 10	About 3 %

The run-in phase usually lasts 48 hours. Helical-worm and SPIROPLAN® gear units achieve their listed nominal efficiency values when:

- The gear unit has been completely run-in,
- The gear unit has reached nominal operating temperature,
- The recommended lubricant has been filled in, and
- The gear unit is operating in the rated load range.

Churning losses

In certain gear unit mounting positions (see chapter "Gear Unit Mounting Positions"), the first gearing stage is completely immersed in the lubricant. When the circumferential velocity of the input stage is high, considerable churning losses occur in larger gear units that must be taken into account. Contact SEW-EURODRIVE if you wish to use gear units of this type.

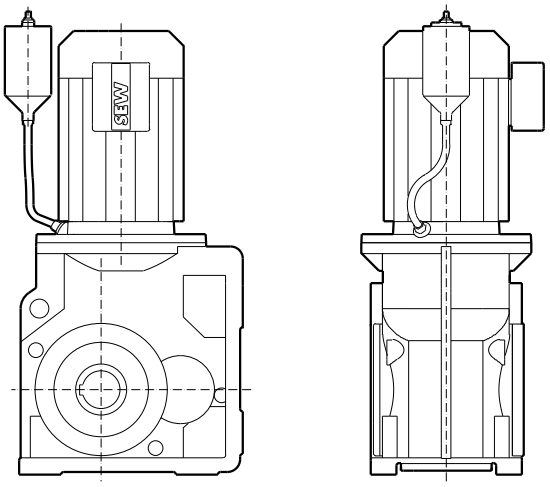
To reduce churning losses to a minimum, use gear units in M1 mounting position.

4.4.2 Oil expansion tank

The oil expansion tank allows the lubricant or air space of the gear unit to expand. This means no lubricant can escape the breather valve at high operating temperatures.

SEW-EURODRIVE recommends to use oil expansion tanks for gear units and gearmotors in M4 mounting position and for input speeds > 2000 rpm.

The following figure shows the oil expansion tank.



The oil expansion tank is provided as assembly kit. It is intended for mounting onto the gearmotor. However, if installation space is limited or if the expansion tank is intended for gear units without motor, it can be mounted to nearby machine parts.

For further information, please contact your SEW-EURODRIVE sales representative.

4.4.3 Multi-stage gearmotors

General information

You can achieve extremely low output speeds by using multi-stage gear units or multi-stage gearmotors. This means an additional second gear unit, usually a helical gear unit, is installed in front of the gear unit or between gear unit and motor.

The resulting total reduction ratio may make gear unit protection necessary.

Limiting the motor power

You have to reduce the maximum output motor power according to the maximum permitted output torque on the gear unit ($M_{a\ max}$). For this purpose you first have to determine the maximum permitted motor torque ($M_{N\ zul}$).

You can calculate the maximum permitted motor torque as follows:

$$M_{N\ zul} = \frac{M_{a\ max}}{i_{ges} \cdot \eta_{ges}}$$

Use this maximum permitted motor torque $M_{N\ zul}$ and the load diagram of the motor to determine the associated value for the motor current.

Take appropriate measures to prevent the continuous current consumption of the motor from exceeding the pre-determined value for the motor torque $M_{N\ zul}$. An appropriate measure would be to set the trip current of the motor protection switch to this maximum current value. A motor protection switch offers the option to compensate for a brief overload, for example during the startup phase of the motor. A suitable measure for inverter drives is to limit the output current of the inverter according to the determined motor current.

Checking brake torques

If you use a multi-stage brakemotor, you have to limit the braking torque (M_B) according to the maximum permitted motor torque $M_{N\ zul}$. The maximum permitted braking torque is 200% $M_{N\ zul}$.

$M_{B\ max} \leq 200\%\ M_{N\ zul}$

If you have questions on the starting frequency of multi-stage brake motors, please consult SEW-EURODRIVE.

Avoiding blockage

Blockage on the output side of the multi-stage gear unit or multi-stage gearmotor is not permitted. The reason is that indeterminable torques and uncontrolled overhung and axial loads may occur. The gear units may suffer irreparable damage as a result.

INFORMATION

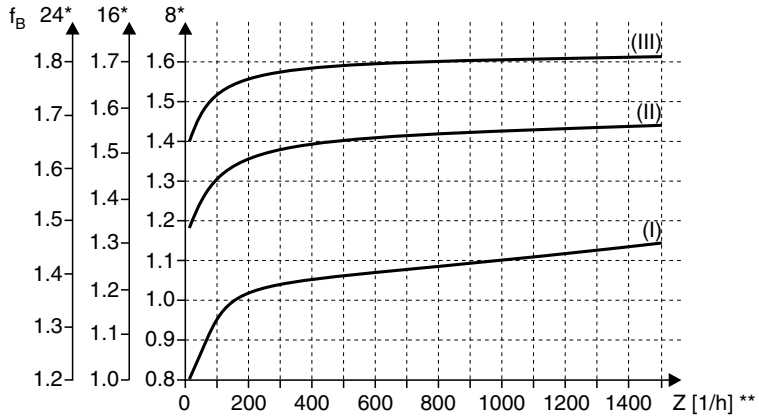
Consult SEW-EURODRIVE if blockages of the multi-stage gear unit or multi-stage gearmotor cannot be avoided due to the application.

4.4.4 Service factor

Determining the service factor

The effect of the driven machine on the gear unit is taken into account to a sufficient level of accuracy using the service factor f_B. The service factor is determined according to the daily operating time and the starting frequency Z. Three load classifications are taken into account depending on the mass acceleration factor. You can read the service factor applicable to your application from figure 3. The service factor determined from this diagram must be smaller than or equal to the service factor according to the selection tables.

$$M_a \times f_B \leq M_{a\max}$$



* Daily operating time in hours/day

** Starting frequency Z: The cycles include all starting and braking procedures as well as changeovers from low to high speed and vice versa.

Load classification

Three load classifications are distinguished:

(I) Uniform, permitted mass acceleration factor ≤ 0.2
(II) Non-uniform, permitted mass acceleration factor ≤ 3
(III) Heavy shock load, permitted mass acceleration factor ≤ 10

Mass acceleration factor

The mass acceleration factor is calculated as follows:

$$\textbf{Mass acceleration factor} = \frac{\textbf{All external mass moments of inertia}}{\textbf{Mass moment of inertia at motor end}}$$

"All external mass moments of inertia" are the mass moments of inertia of the driven machine and the gear unit, scaled down to the motor speed. The calculation for scaling down to motor speed is performed using the following formula:

$$J_X = J \times \left(\frac{n}{n_M} \right)^2$$

J_X = Mass moment of inertia scaled down to the motor shaft
J = Mass moment of inertia with reference to the output speed of the gear unit
n = Output speed of the gear unit
n_M = Motor speed

"Mass moment of inertia at the motor end" is the mass moment of inertia of the motor and, if installed, the brake and the flywheel fan (Z fan).

Service factors f_B > 1.8 may occur with large mass acceleration factors (> 10), high levels of backlash in the transmission elements or large overhung loads. Contact SEW-EURODRIVE in such cases.

Servicefactor: SEW f_B

The method for determining the maximum permitted continuous torque M_{amax} and using this value to derive the service factor $f_B = M_{amax} / M_a$ is not defined in a standard and varies greatly from manufacturer to manufacturer. Even at a SEW service factor of f_B = 1, the gear units afford an extremely high level of safety and reliability in the fatigue strength range (exception: wearing of the worm wheel in helical-worm gear units). The service factor may differ from specifications of other gear unit manufacturers. If you are in doubt, contact SEW-EURODRIVE for more detailed information on your specific drive.

Example

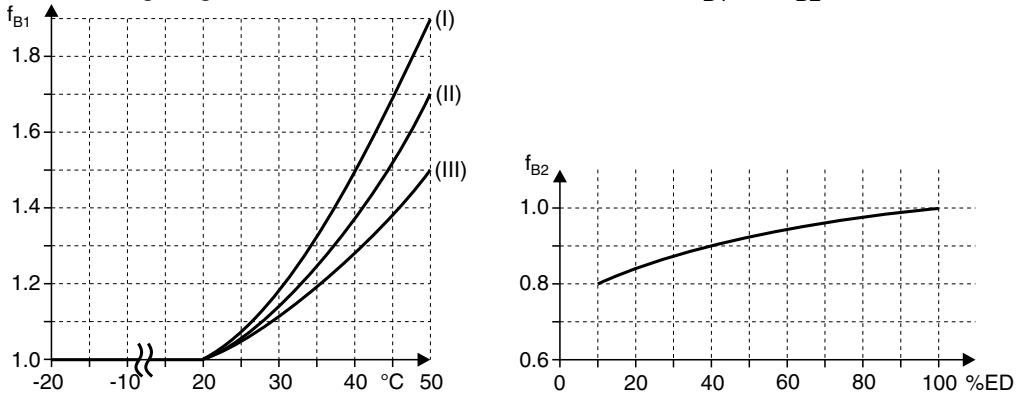
Mass acceleration factor 2.5 (load classification II), operating time 14 hours/day (read off at 16 h/d) and 300 cycles/hour produce a service factor f_B = 1.51 as shown in the figure on the previous page. According to the selection tables, the selected geared motor must have an SEW f_B value of 1.51 or greater.

Helical-worm gear units

Two further service factors have to be taken into account with helical-worm gear units in addition to the service factor f_B shown the above diagram. These are:

- f_{B1} = Service factor from ambient temperature
- f_{B2} = Service factor from cyclic duration factor

The additional service factors f_{B1} and f_{B2} can be determined by referring to the diagram below. For f_{B1}, the load classification is taken into account in the same way as for f_B. The following diagram shows the additional service factors f_{B1} and f_{B2}:



$$cdf(\%) = \frac{Time\ under\ load\ in\ min/h}{60} \times 100$$

Contact SEW-EURODRIVE in case of temperatures below -20 °C (→ f_{B1}).

The total service factor for helical-worm gear units is calculated as follows:

$$f_{Bges} = f_B \times f_{B1} \times f_{B2}$$

Example

The gearmotor with the service factor f_B = 1.51 in the previous example is to be a helical-worm gearmotor.

Ambient temperature ϑ = 40 °C → f_{B1} = 1.38 (read off at load classification II)

Time under load = 40 min/h → cdf = 66.67 % → f_{B2} = 0.95

The total service factor is f_{Btot} = 1.51 × 1.38 × 0.95 = 1.98

According to the selection tables, the selected helical-worm gearmotor must have an SEW f_B service factor of 1.98 or greater.

4.4.5 Overhung and axial loads

Permitted overhung load

The basis for determining the permitted overhung loads is the computation of the rated bearing service life L_{10h} of the anti-friction bearings (according to ISO 281).

For special operating conditions, the permitted overhung loads can be determined with regard to the modified service life L_{na} on request.

INFORMATION

The values refer to force applied to the center of the shaft end (in right-angle gear units as viewed onto the drive end). The values for the force application angle α and direction of rotation are based on the most unfavorable conditions.

INFORMATION

Reduction of overhung loads

- Only 50% of the F_{Ra} value specified in the selection tables is permitted in mounting position M1 with wall attachment on the front face for K and S gear units.
- Helical-bevel gearmotors K167 and K187 in mounting positions M1 to M4: A maximum of 50% of the overhung load F_{Ra} specified in the selection tables in the case of gear unit mounting other than as shown in the mounting position sheets.
- Foot or flange-mounted helical gearmotor (R..F): A maximum of 50 % of the overhung load F_{Ra} specified in the selection tables for torque transmission via flange mounting are permitted.

On the input side: Overhung load conversion for off-center force application

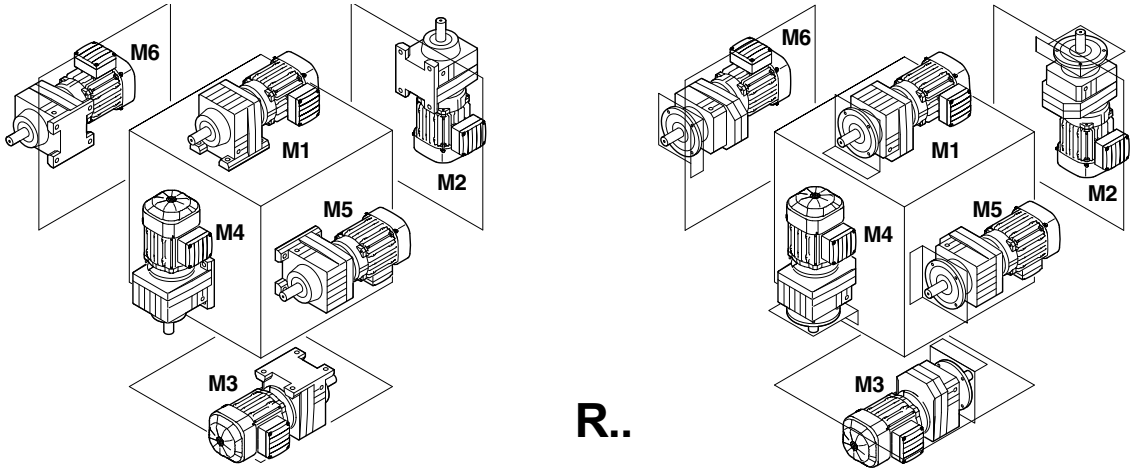
Important: only applies to gear units with input shaft assembly:

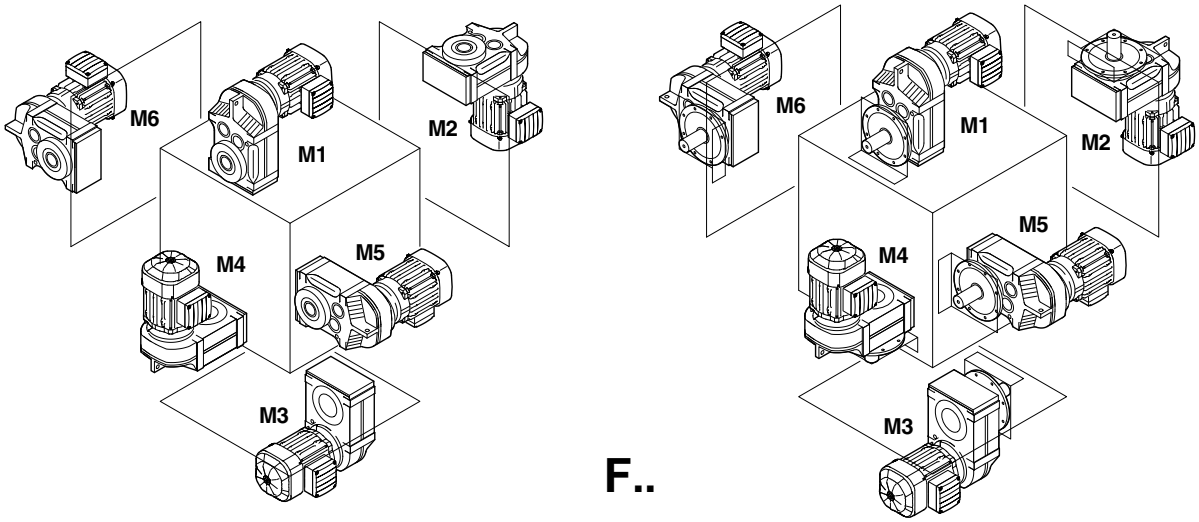
Please contact SEW-EURODRIVE for off-center force application on the drive end.

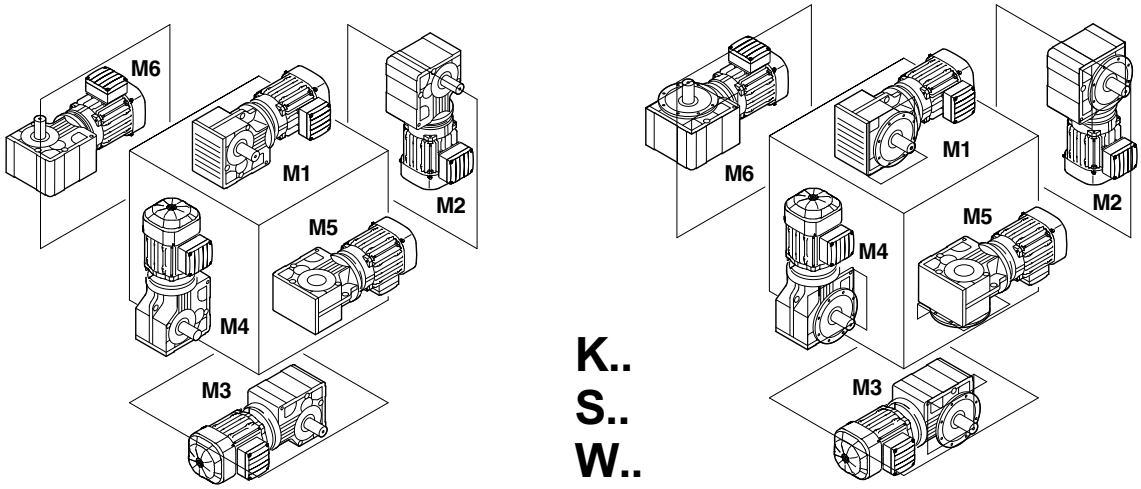
5 Mounting Positions of the Gear Units

5.1 General mounting position information – R, F, K, S, W gear units

SEW-EURODRIVE distinguishes between the 6 gear unit mounting positions M1 to M6. The following figure shows the spatial orientation of the gear unit in mounting positions M1 – M6:







18014398528291723

5.2 Important order information

INFORMATION

The following order information is required for R, F, K and S gear units or gearmotors in addition to the mounting position to exactly determine the type of drive.

This information is also required for SPIROPLAN® gearmotors (W gearmotors) that do not depend on a particular mounting position.

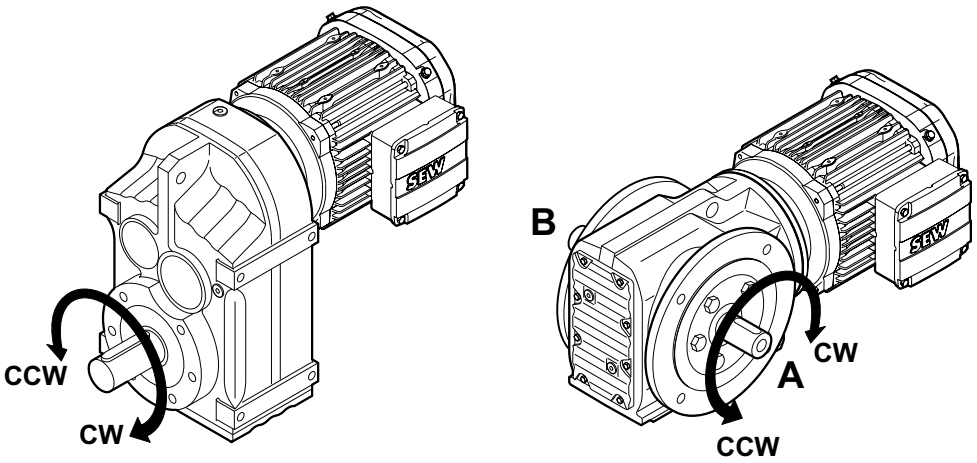
5.2.1 The following applies to all gear units and gearmotors

Observe the following notes for all gear units and gearmotors from SEW-EURODRIVE.

Output direction of rotation with backstop

If the drive has an RS backstop, you have to indicate the direction of rotation of the output for the drive. The following definition applies:

As viewed at the output shaft: Clockwise (CW) = Rotating clockwise
Counterclockwise (CCW) = Rotating counterclockwise

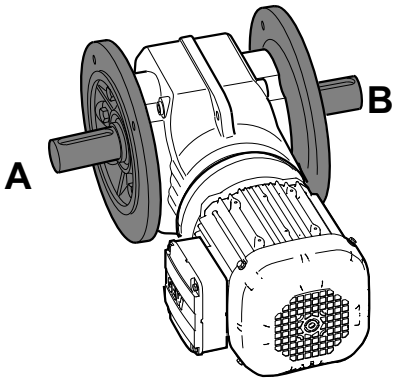


In right-angle gear units, you also have to indicate whether the direction of rotation is given looking onto the A or B end.

Position of the output shaft and the output flange

In right-angle gear units, you also have to indicate the position of the output shaft and the output flange:

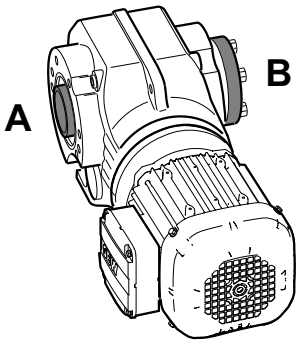
- A or B or AB



Position of the output end in right-angle gear units

In shaft mounted right-angle gear units with a shrink disk, you also have to indicate whether the A or B end is the output end. In the figure below, the A end is the output end. The shrink disk is located opposite the output end.

In shaft mounted right-angle gear units, the output end is equivalent to the shaft position of right-angle gear units with solid shaft.



INFORMATION

For the permitted mounting surfaces (= hatched area), refer to the mounting position sheets.

Example: Only the mounting surface at the bottom is possible with helical-bevel gear units K167/K187 in mounting positions M5 and M6.

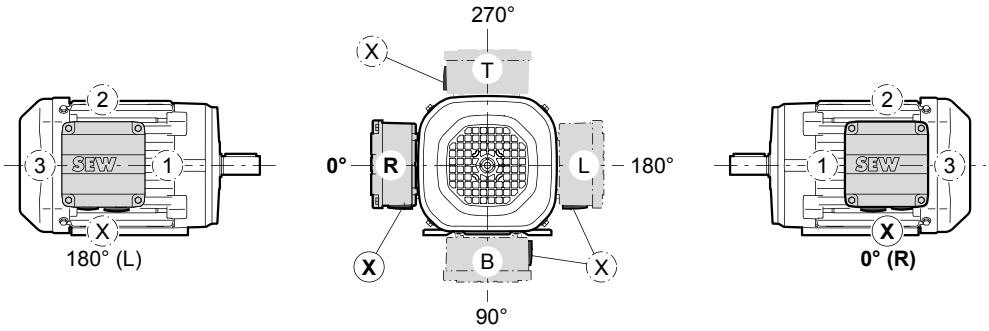
5.2.2 Position of motor terminal box and cable entry

The position of the motor terminal box has so far been specified indicated with 0°, 90°, 180° or 270° as viewed onto the fan guard = B-end, see the following figure. A change in the product standard EN 60034 specifies that the following designations will have to be used for terminal box positions for foot-mounted motors in the future:

- As viewed onto the output shaft = A-end
- Designation as R (right), B (bottom), L (left) and T (top)

This new designation applies to foot-mounted motors without a gear unit in mounting position B3 (= M1). The previous designation is maintained for gearmotors. The following figure shows both designations. Where the mounting position of the motor changes, R, B, L and T are rotated accordingly. In motor mounting position B8 (= M3), T is at the bottom.

The position of the cable entry can be selected as well. "X" (= normal position), "1", "2" or "3" are possible, see following figure.



Unless indicated otherwise, you will receive the terminal box type 0° with "X" cable entry. For mounting position M3, we recommend that you select cable entry "2".

INFORMATION

Only cable entries and "2" are possible for DR63 motors. Exception: This limitation does not apply with IS plug connectors.

INFORMATION

When the **terminal box is in the 90° (B) position**, check to see if the gearmotor has to be supported.

Software support

Not all cable entry positions [X, 1, 2, 3] and terminal box positions [0°(R), 90°(B), 180°(L), 270°(T)] are possible in any case. Some additional features for the motor require a connection inside the terminal box, which means this terminal box is larger than the standard terminal box due to the normative air gaps and creepage distances. The dimension sheets only depict the standard terminal box.

Dimensions not listed in the dimension sheets can be determined with the DRIVECAD software, available from Drivegate® on the SEW-EURODRIVE website.

- For registered Drivegate® users: https://portal.drivegate.biz/drivecad
- For new users: www.sew-eurodrive.com → Drivegate® login

5.2.3 Changing the mounting position

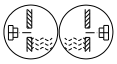
It is important that you read the following information when you operate the gearmotor in a mounting position other than indicated in the order:

- Adjust the lubricant fill quantity so that it matches the new mounting position.
- Adjust position of breather valve
- For helical-bevel gearmotors: Contact SEW-EURODRIVE customer service prior to changing to mounting position M5 or M6 and when changing from M5 to M6, or vice versa.
- For helical-worm gearmotors: Contact SEW-EURODRIVE customer service when changing to mounting position M2 or M3.

5.3 Key to the mounting position sheets

5.3.1 Symbols used

The following table shows the symbols used in the mounting position sheets and their meaning:

Symbol	Meaning
	Breather valve
	Oil level check hole[1)]
	Oil drain plug

1) Does not apply to the 1st gear unit (large gear unit) of double gear units.

5.3.2 Churning losses

* → Page XX

Churning losses may occur in some mounting positions. Contact SEW-EURODRIVE in case of the following combinations:

Mounting position	Gear unit type	Gear unit size	Input speed rpm
M2, M4	R	97 – 107	> 2500
		> 107	>1500
M2, M3, M4, M5, M6	F	97 – 107	> 2500
		> 107	> 1500
	K	77 – 107	> 2500
		> 107	> 1500
	S	77 – 97	> 2500

5.3.3 Displayed shaft

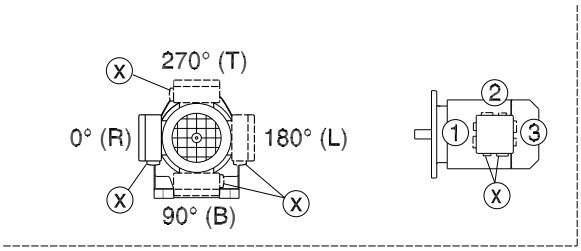
Observe the following information regarding the illustrations on the mounting position sheets:

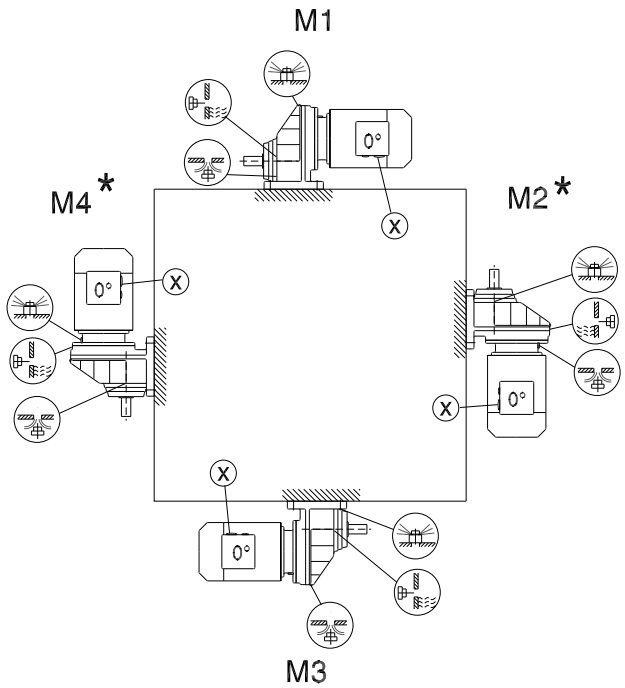
INFORMATION

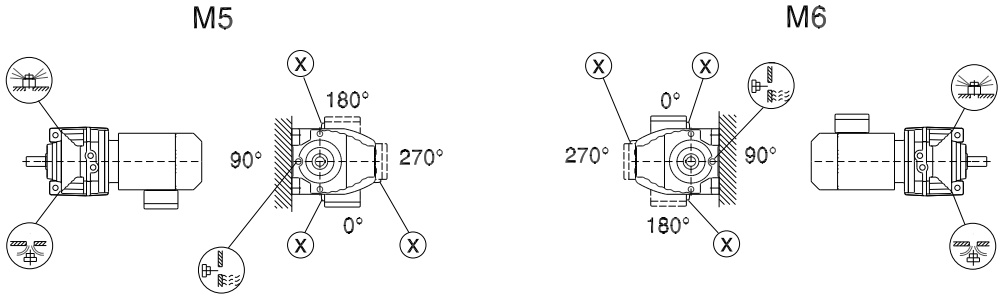
- **For gear units with solid shaft:** The displayed shaft is always on the A end.
- **For shaft-mounted gear units:** The shaft with dashed lines represents the customer shaft. The output end (= shaft position) is always shown on the A end.

5.4 Mounting positions of helical gearmotors

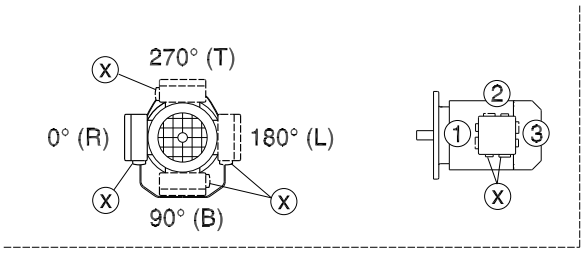
04 043 02 00

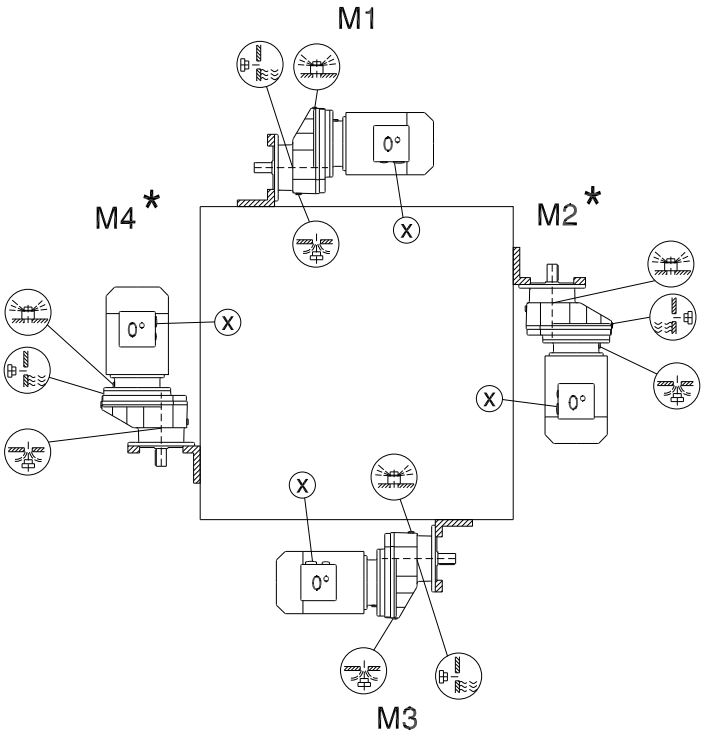


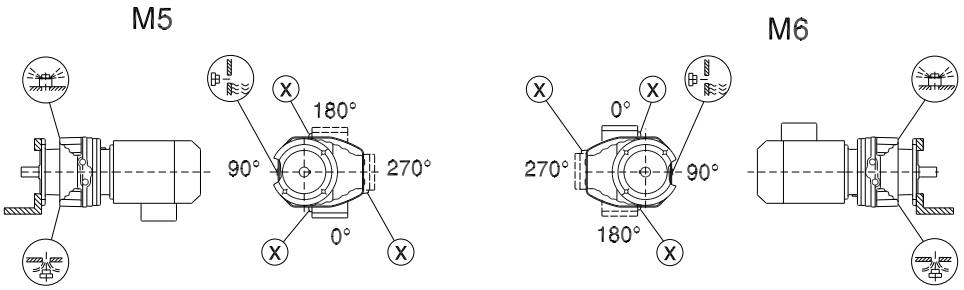




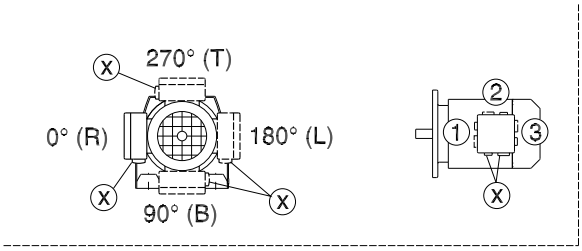
04 044 02 00

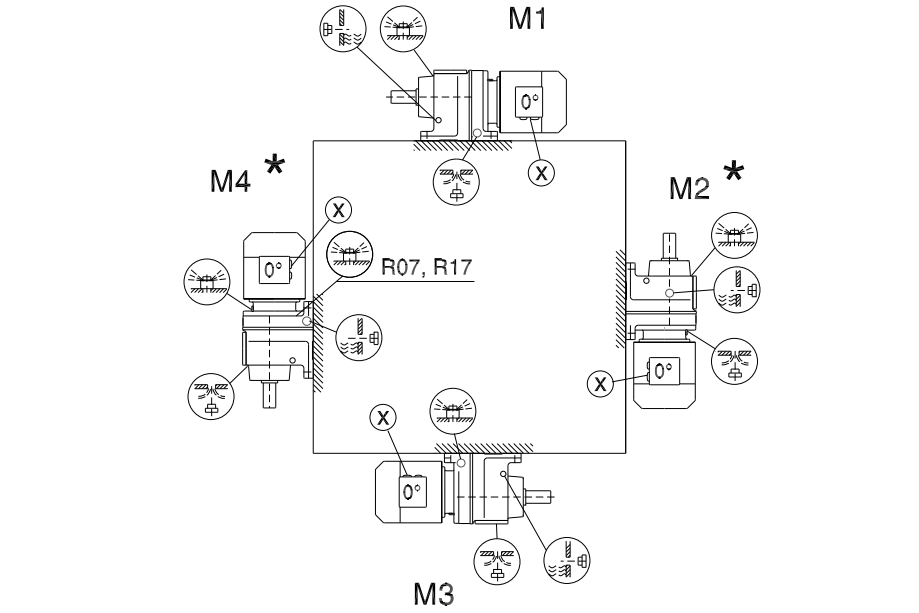


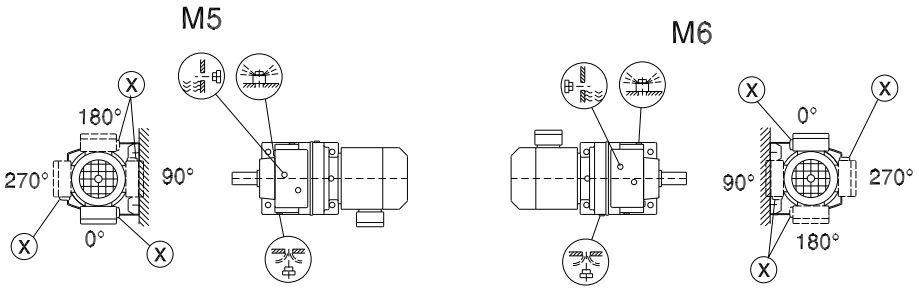




04 040 03 00

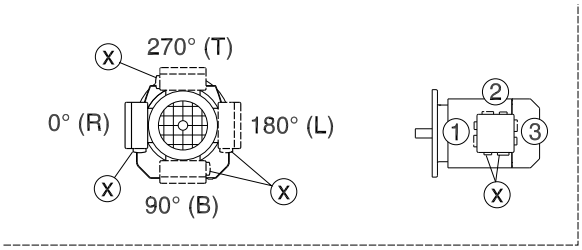


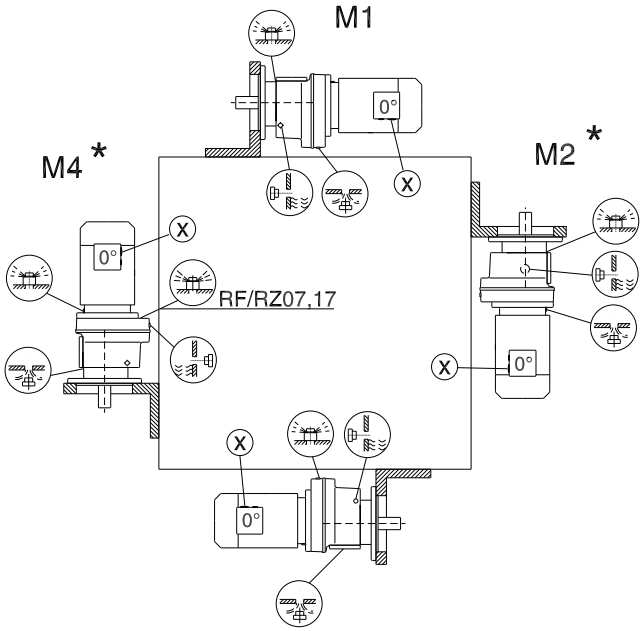


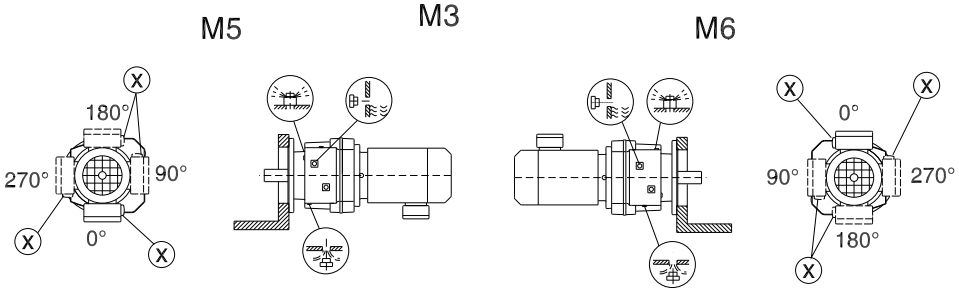


R07		M1, M2 , M3 , M5 , M6
R17, R27		M1, M3 , M5 , M6
R07, R17, R27		
R47, R57		M5

04 041 03 00

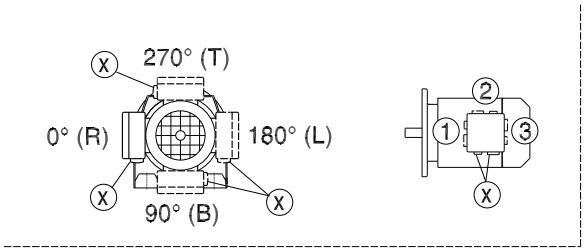


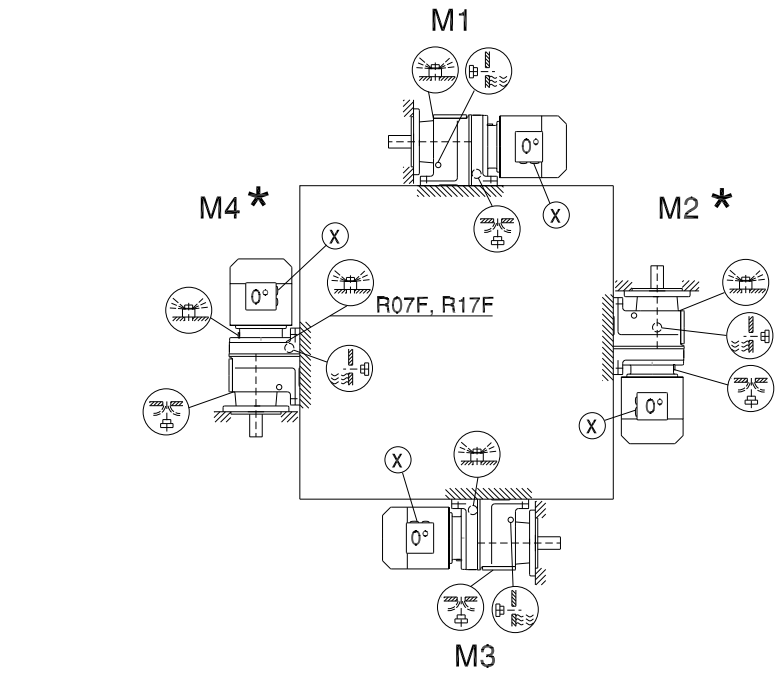


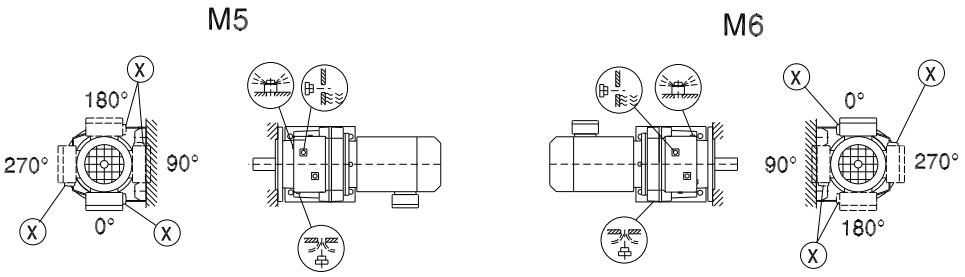


RF/RZ07		M1, M2 , M3 , M5 , M6
RF/RZ17,27		M1, M3 , M5 , M6
RF/RZ07, 17, 27		
RF/RZ47, 57		M5

04 042 03 00



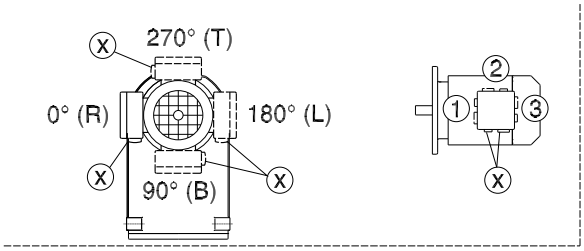


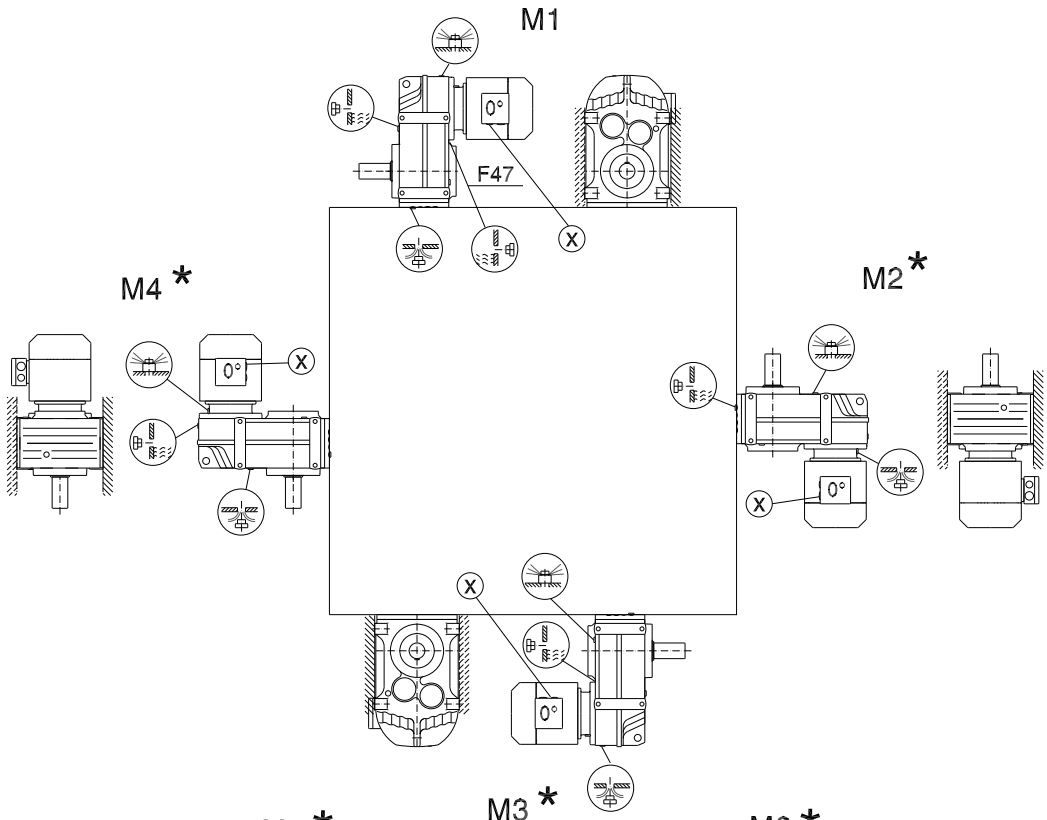


R07F		M1, M2 , M3 , M5 , M6
R17F, R27F		M1, M3 , M5 , M6
R07F, R17F, R27F		
R47F, R57F		M5

5.5 Mounting positions of parallel-shaft helical gearmotors

42 042 03 00



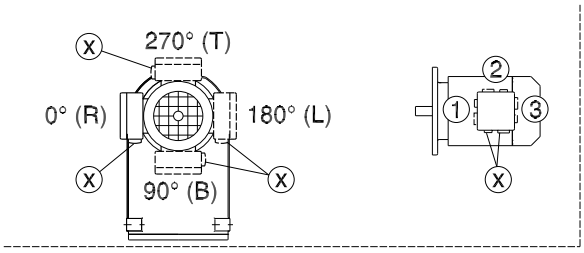


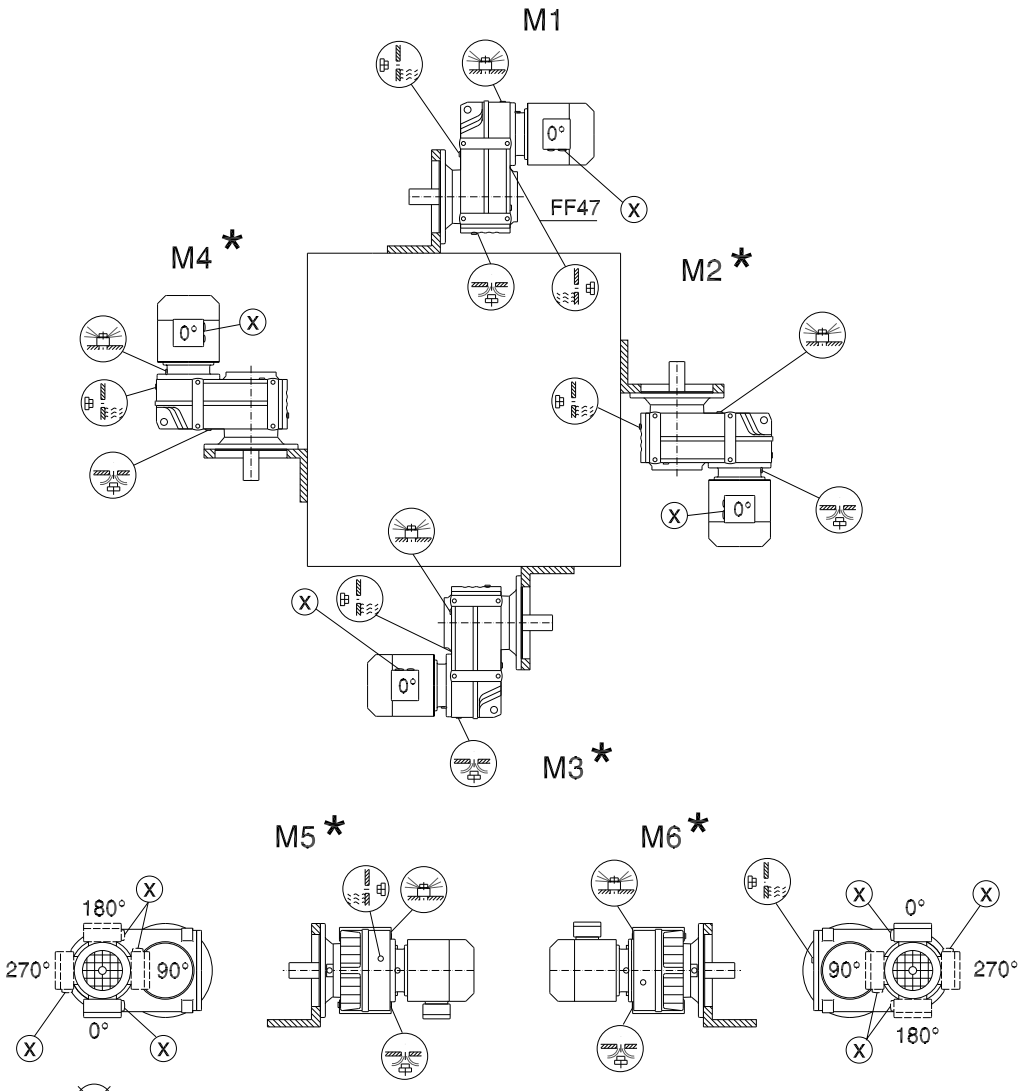
F..27 M1, M3, M5, M6

F..27 M1 - M6

F..27 M1, M3, M5, M6

42 043 03 00



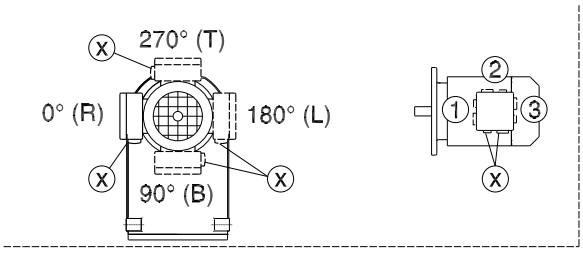


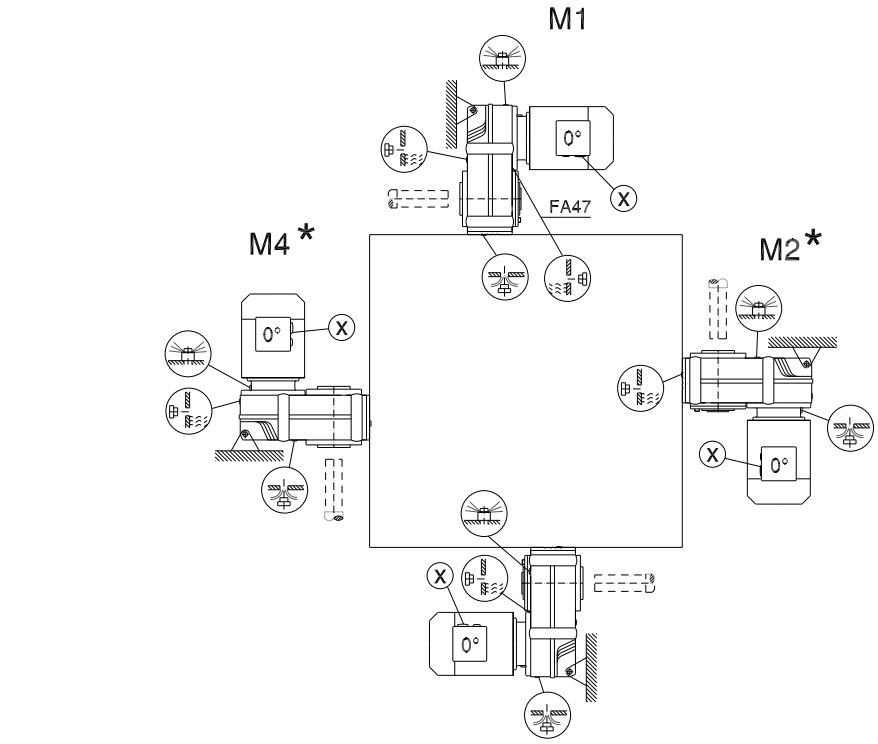
F..27 M1, M3, M5, M6

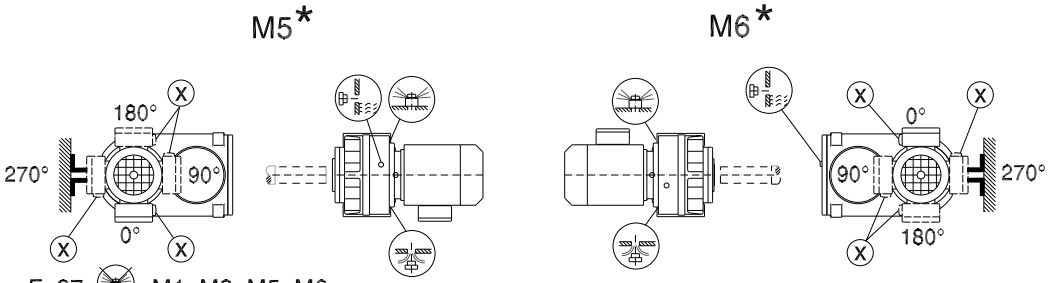
F..27 M1 - M6

F..27 M1, M3, M5, M6

42 044 03 00







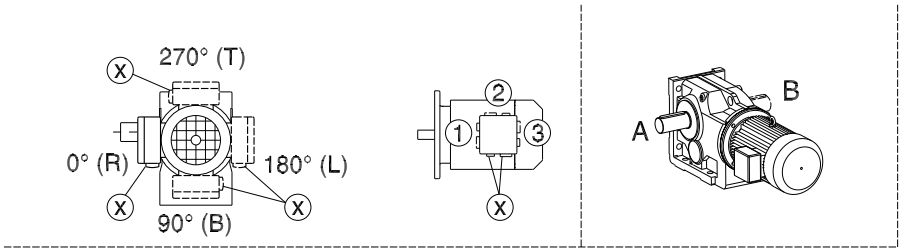
F..27 ⊗ M1, M3, M5, M6

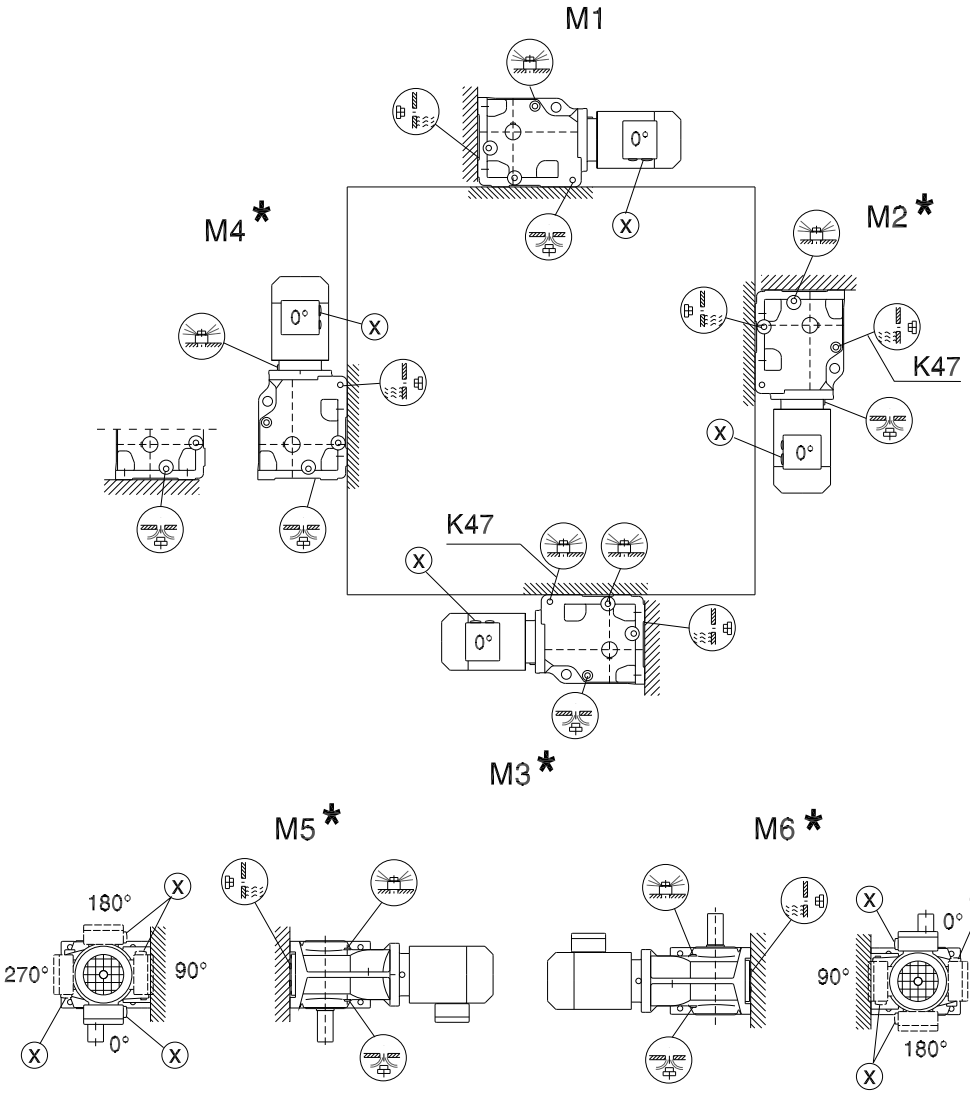
F..27 ⊗ M1 - M6

F..27 ⊗ M1, M3, M5, M6

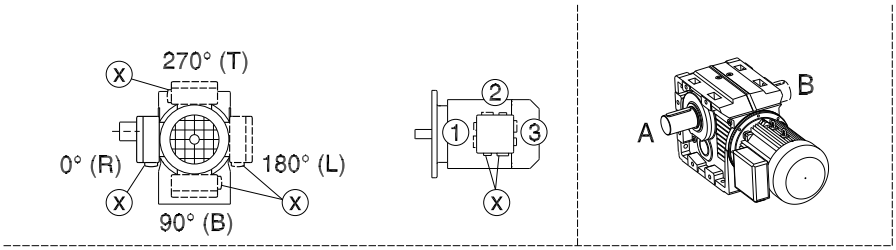
5.6 Mounting positions of helical-bevel gearmotors

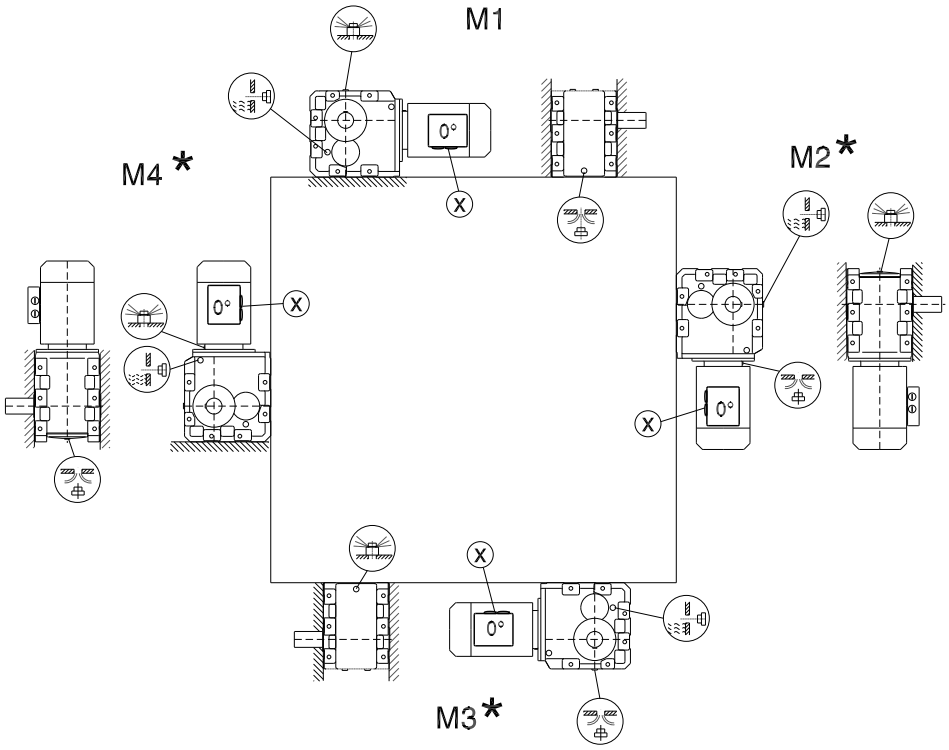
34 025 03 00

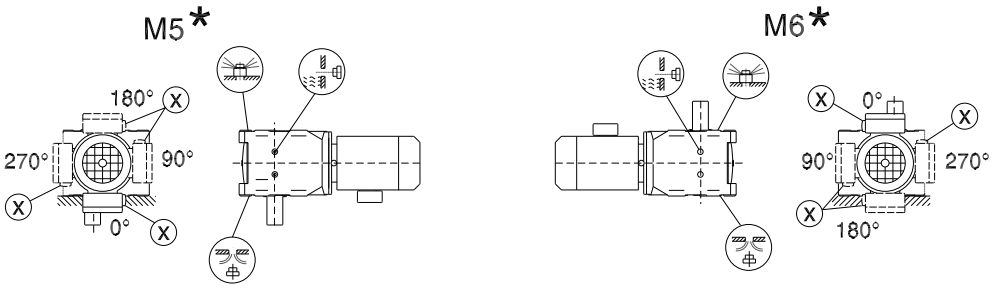




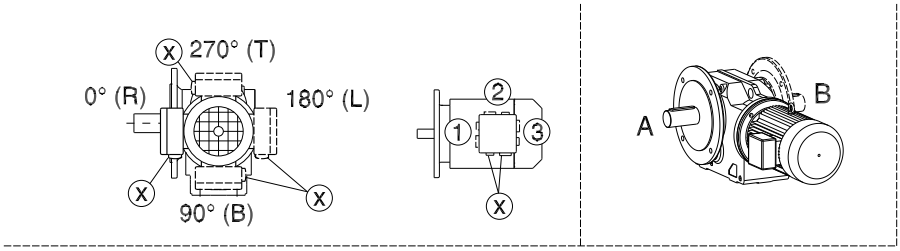
34 026 03 00

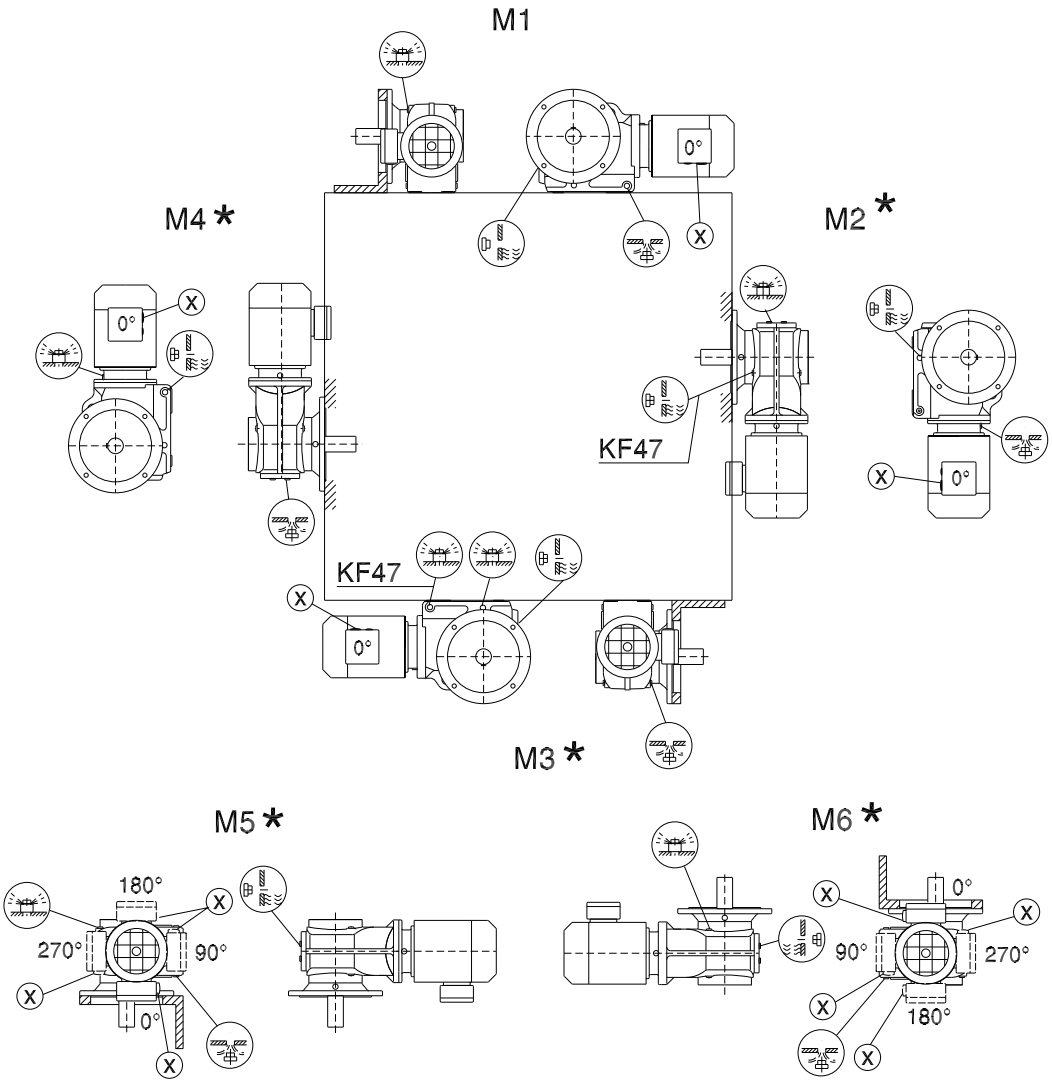




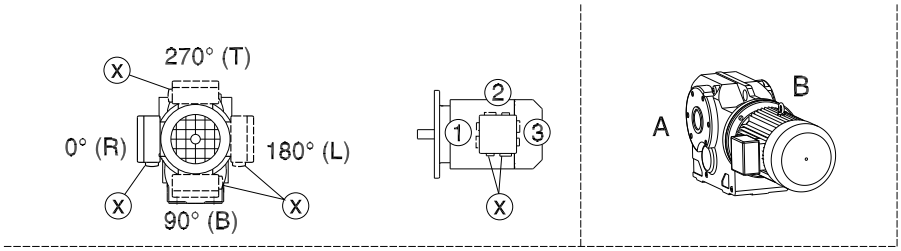


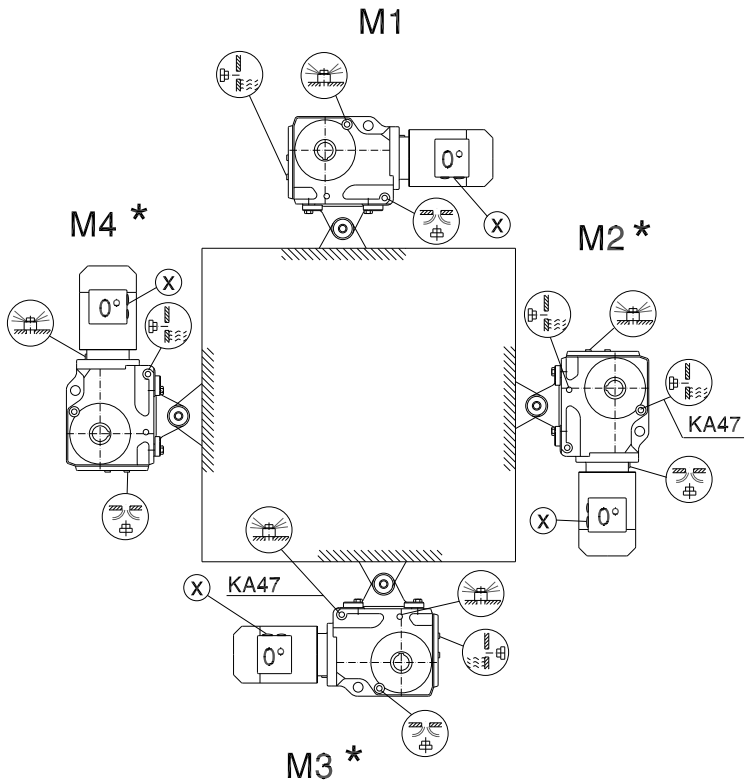
34 027 03 00

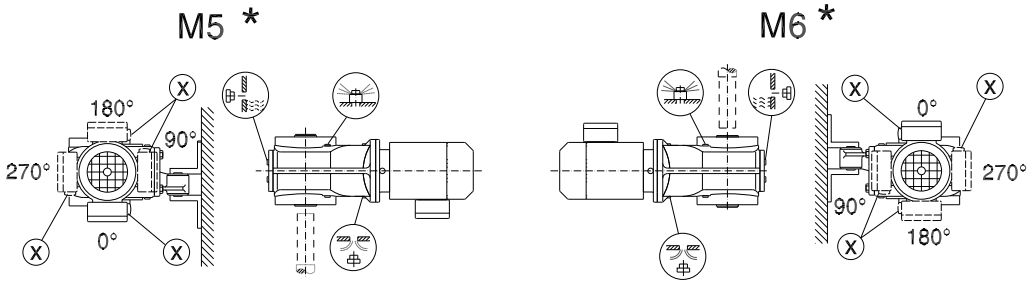

X
270° (T)
0° (R)
180° (L)
90° (B)
X
X
2
1
3
X
A
B


M1
0°
X
M4 *
M2 *
0°
X
KF47
KF47
X
0°
M3 *
M5 *
180°
270°
90°
0°
X
M6 *
0°
90°
270°
180°
X

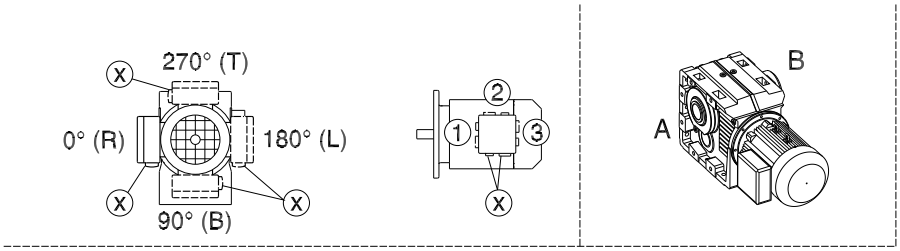
39 025 04 00

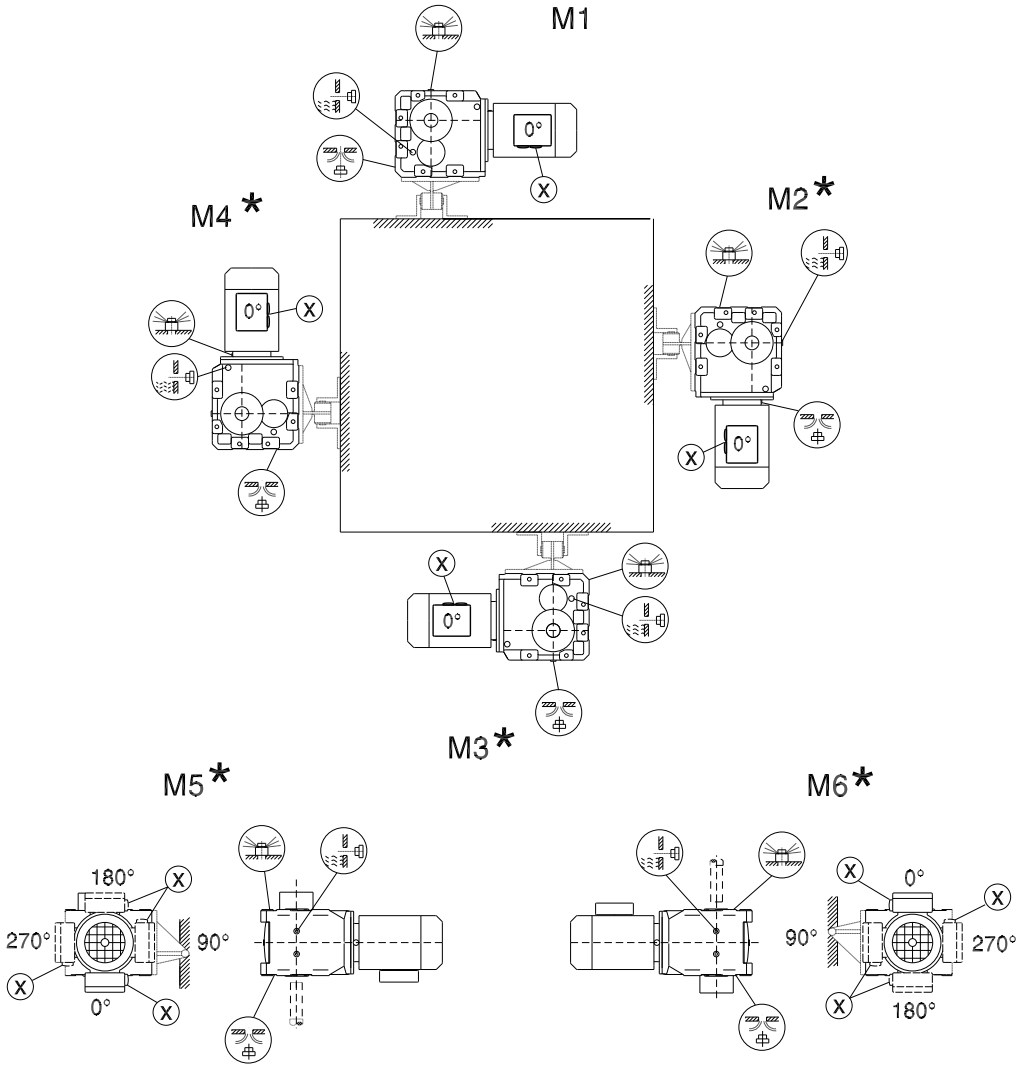




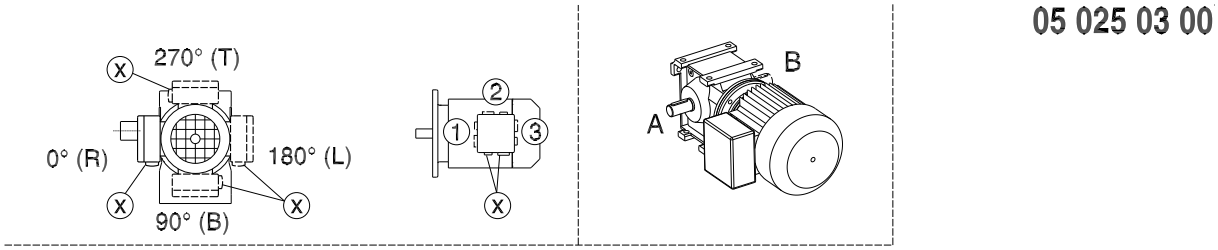


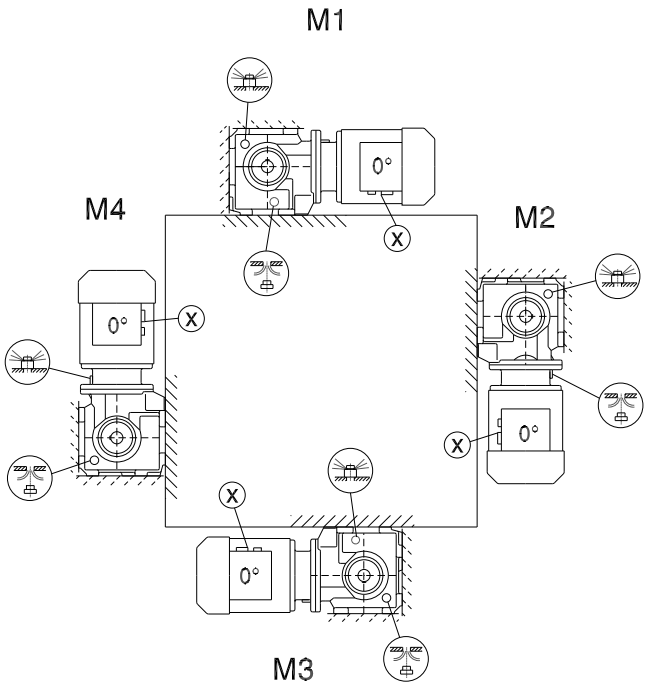
39 026 04 00

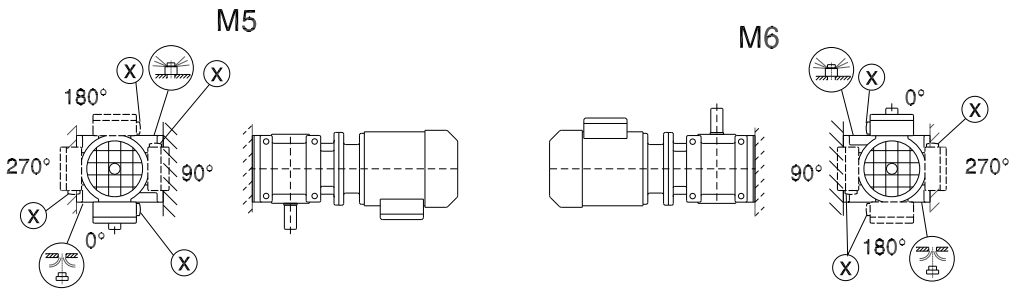




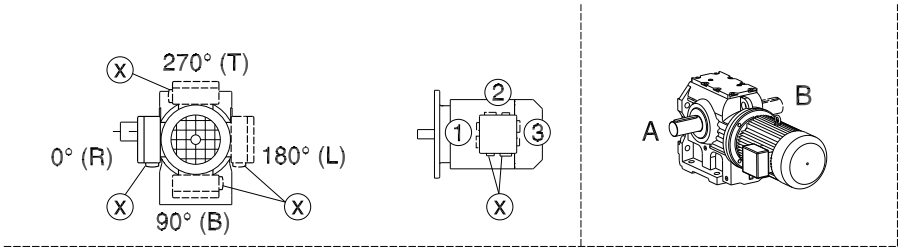
5.7 Mounting positions of helical-worm gearmotors

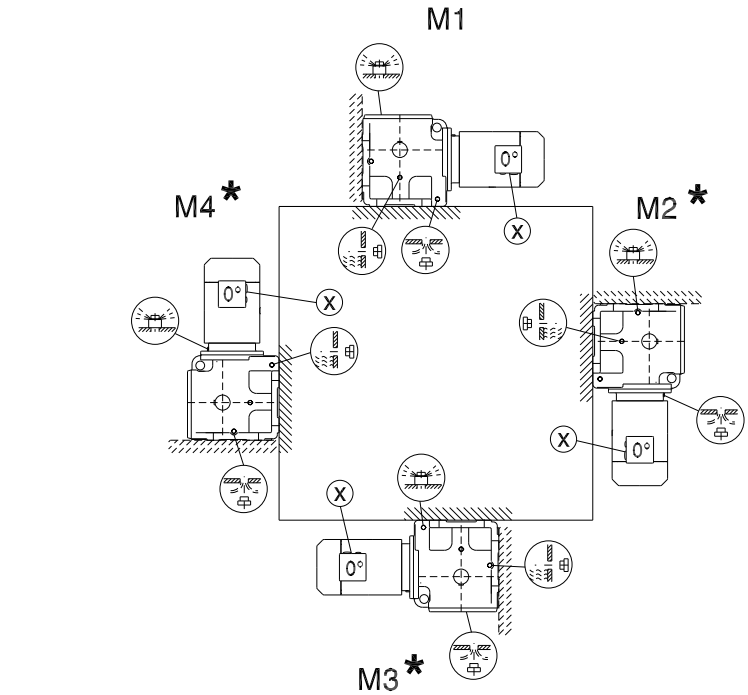


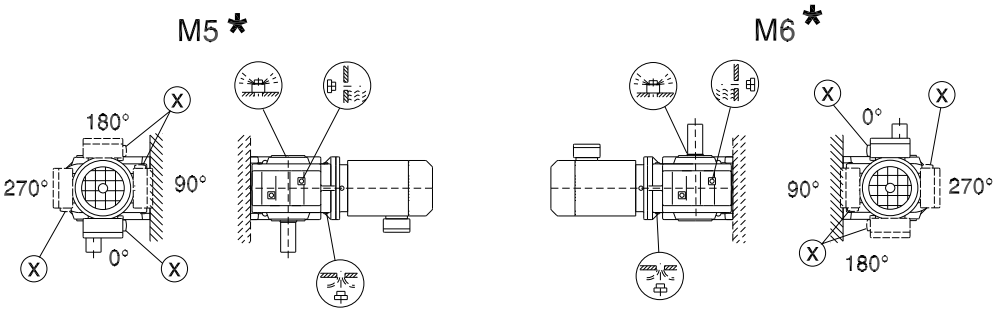




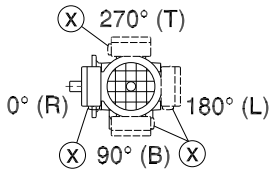
05 026 03 00

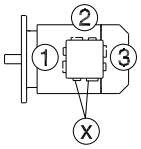

270° (T)
0° (R)
180° (L)
90° (B)
X
1
2
3
A
B

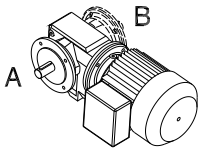

M1
M2 *
M3 *
M4 *
0°
X

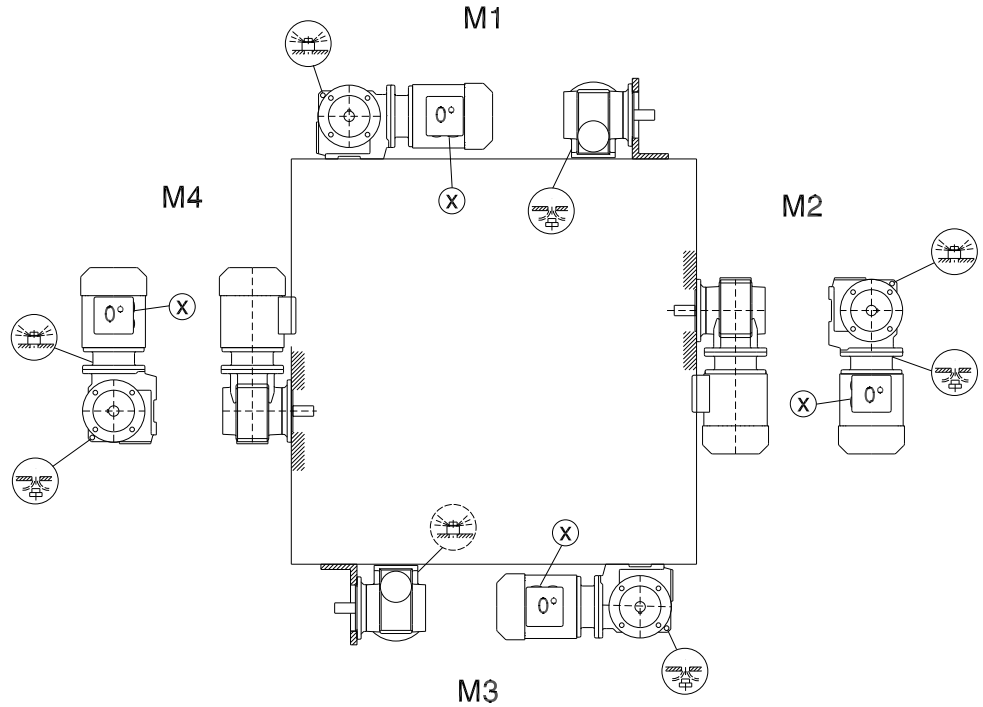

M5 *
180°
270°
90°
0°
X
M6 *
0°
90°
270°
180°
X

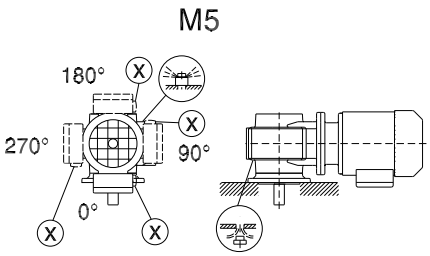
05 027 03 00

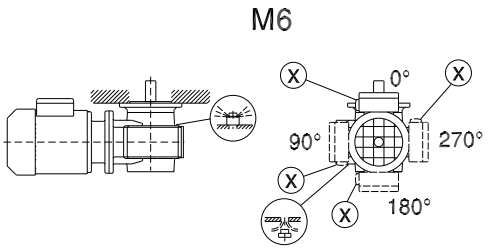

X 270° (T)
0° (R)
180° (L)
X 90° (B) X


2
1
3
X

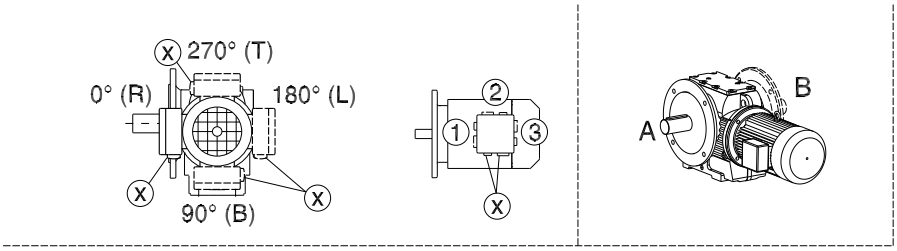

B
A

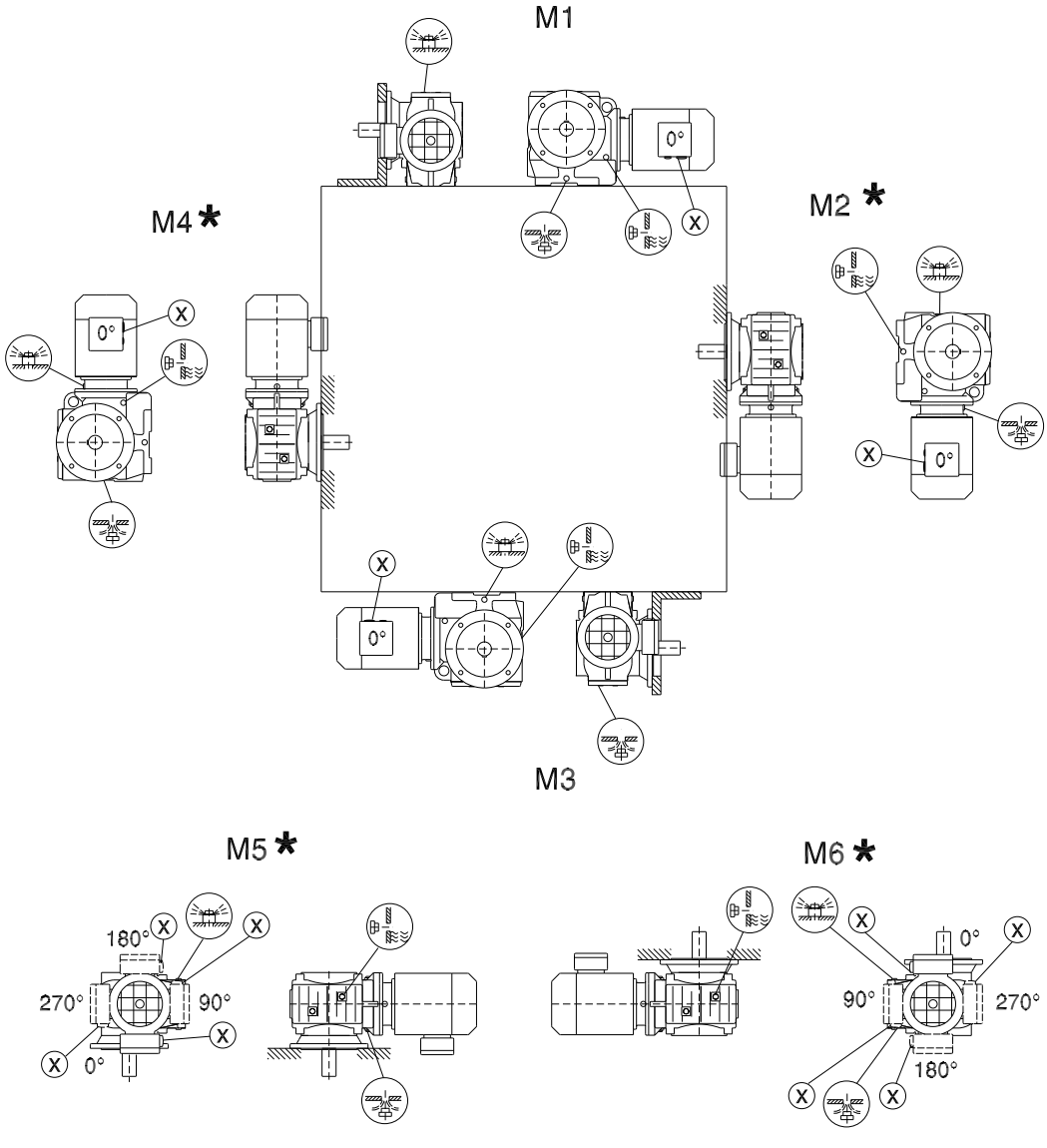

M1
0°
X
M4
0°
X
M2
0°
X
M3
X
0°


M5
180°
X
270°
90°
0°
X
X

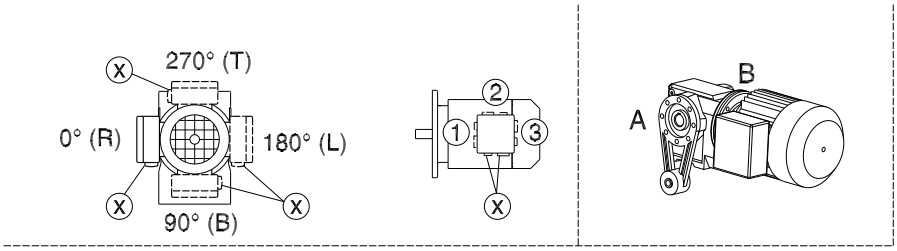

M6
X
0°
X
90°
270°
X
X
180°

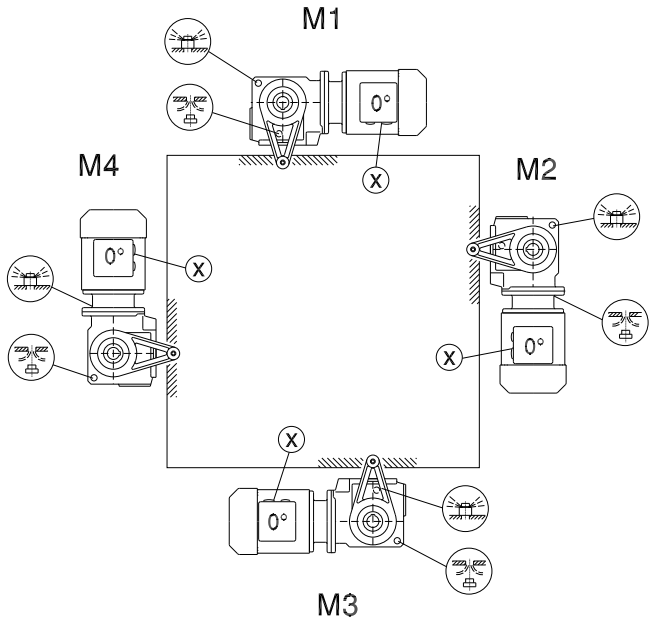
05 028 03 00

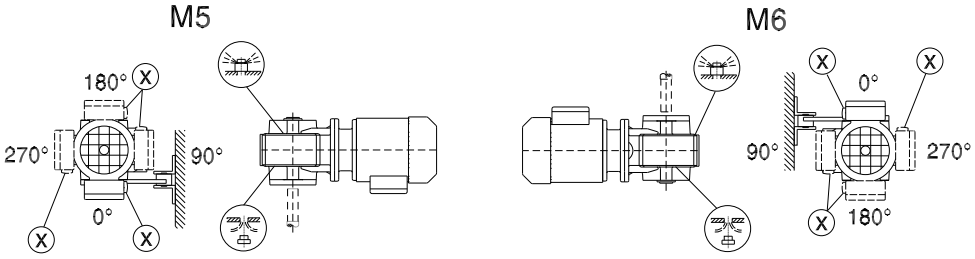

X 270° (T)
0° (R)
180° (L)
90° (B)
X
X
X
2
1
3
X
A
B


M1
0°
X
M4 *
0°
X
M2 *
X
0°
X
0°
M3
M5 *
180°
270°
90°
0°
X
M6 *
0°
90°
270°
180°
X

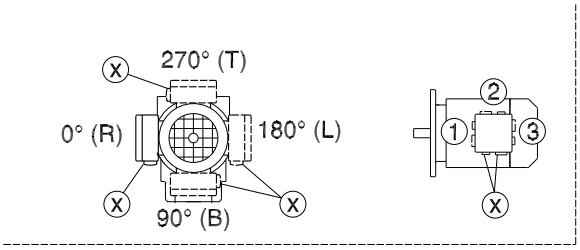
28 020 04 00

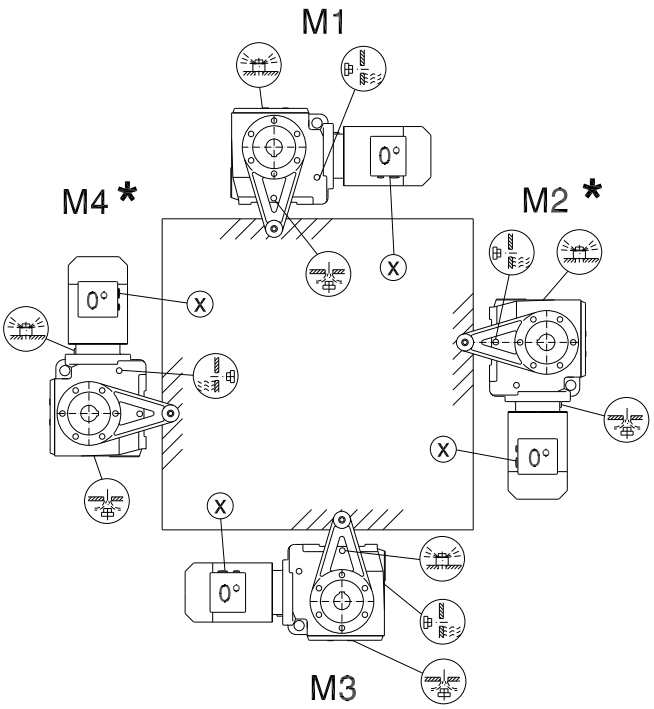

270° (T)
0° (R)
180° (L)
90° (B)
X
1
2
3
A
B

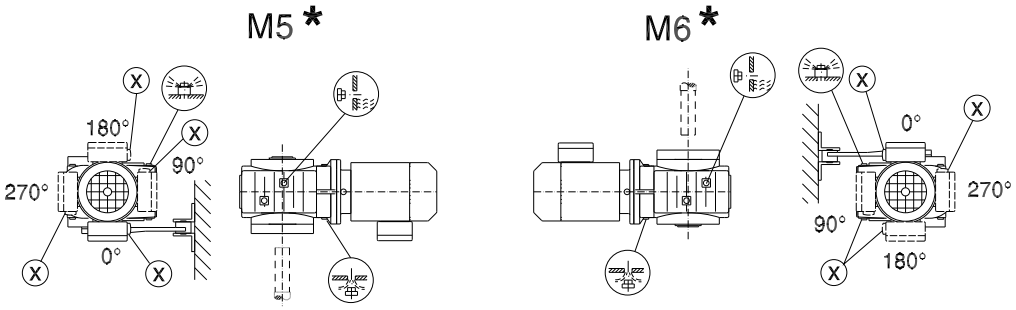

M1
M2
M3
M4
0°
X


M5
180°
270°
90°
0°
M6
0°
90°
270°
180°
X

28 021 03 00

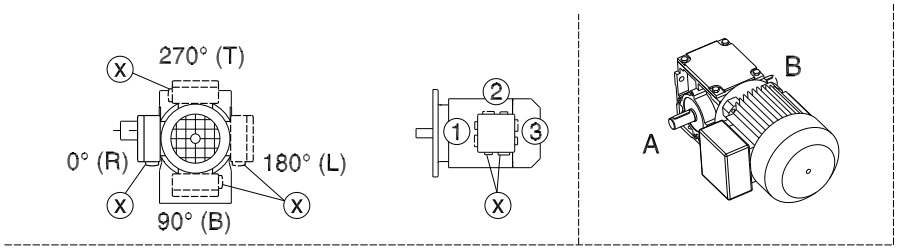


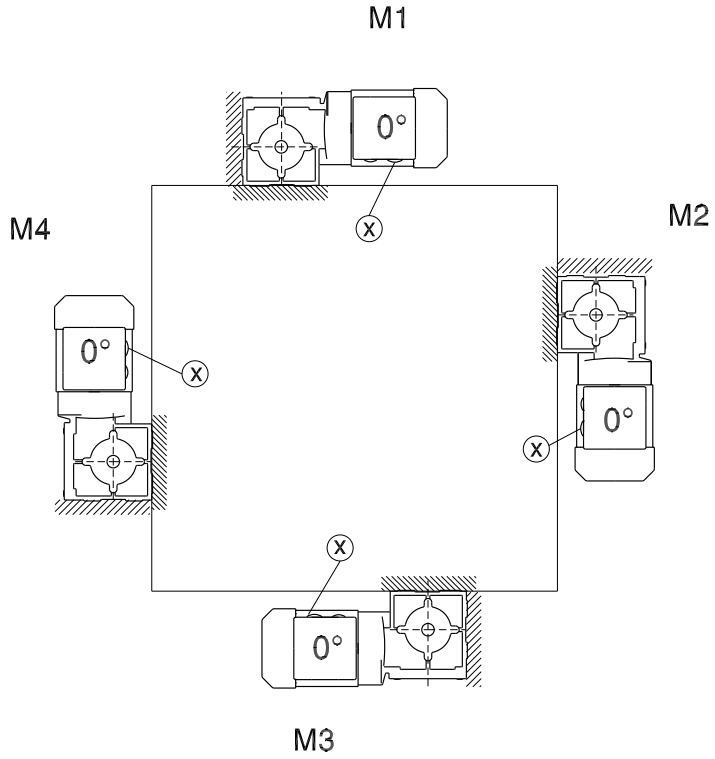


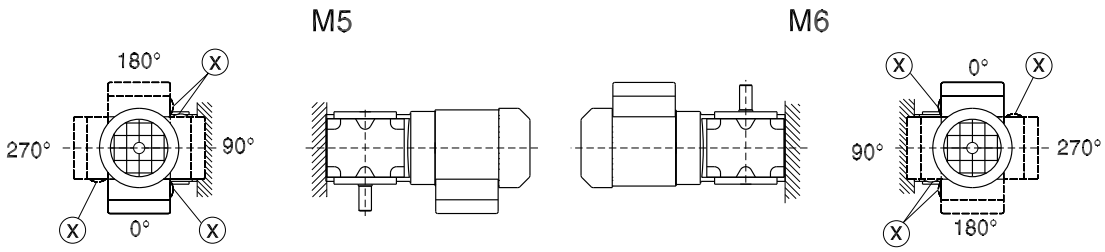


5.8 Mounting positions of SPIROPLAN® gearmotors

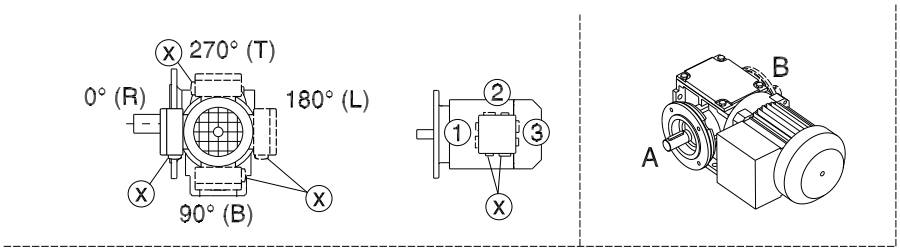
20 001 01 02

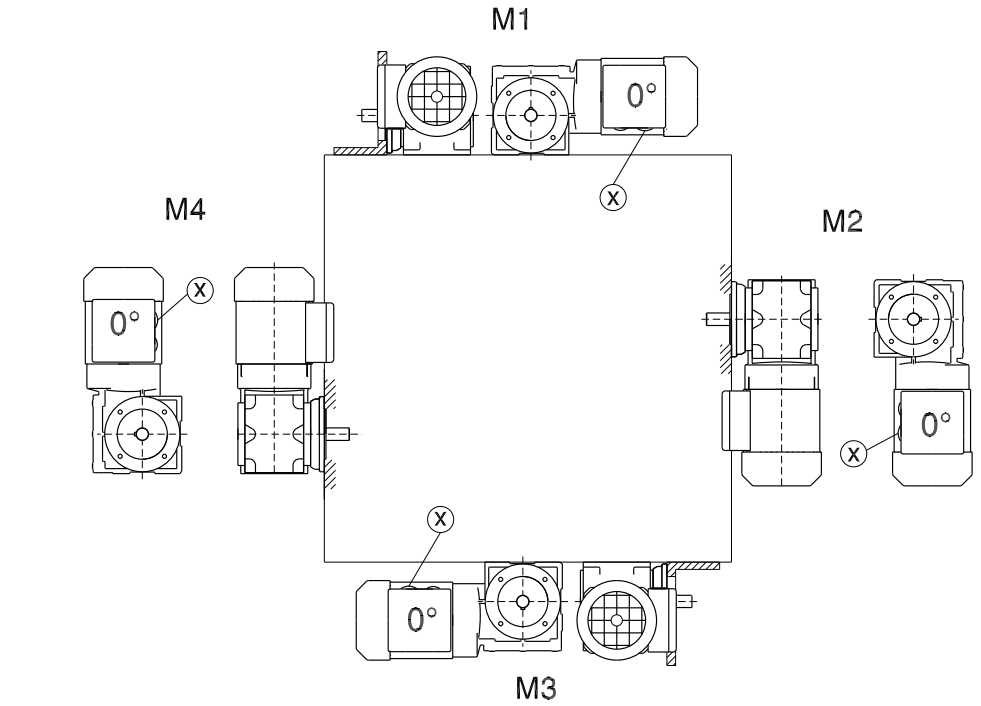


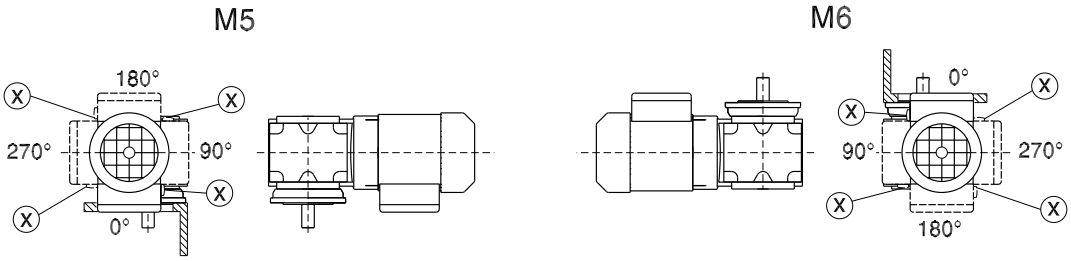




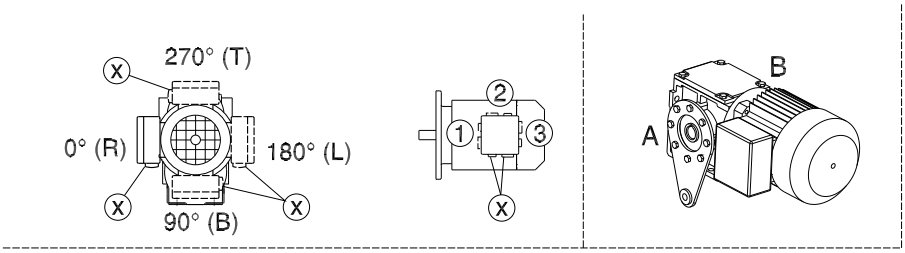
20 002 01 02

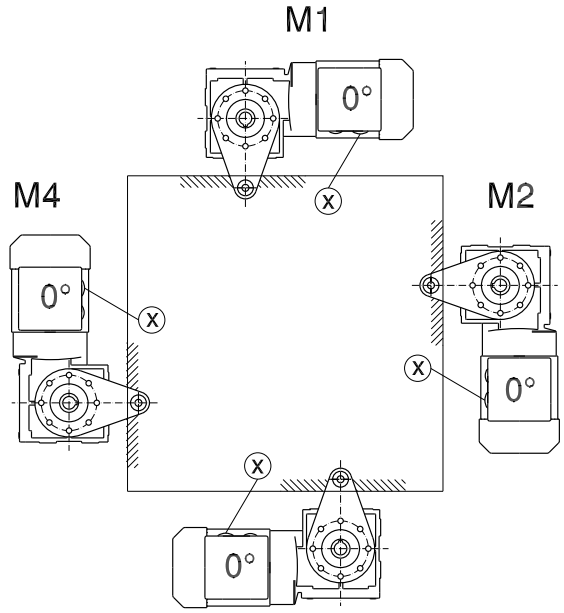

270° (T)
0° (R)
180° (L)
90° (B)
1
2
3
A
B


M1
0°
M4
0°
M2
0°
M3
0°

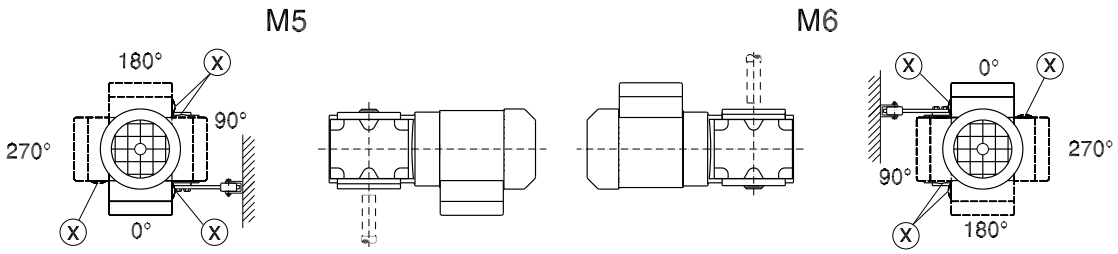

M5
180°
270°
90°
0°
M6
0°
90°
270°
180°

20 003 02 02

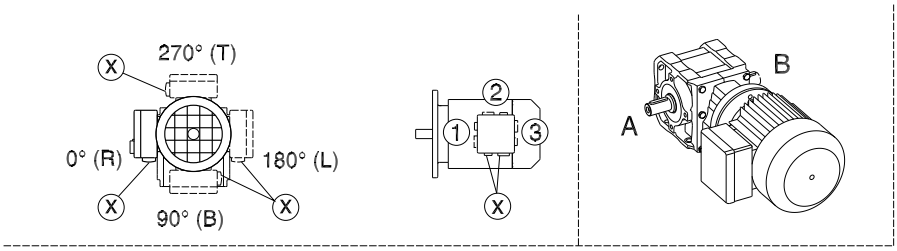


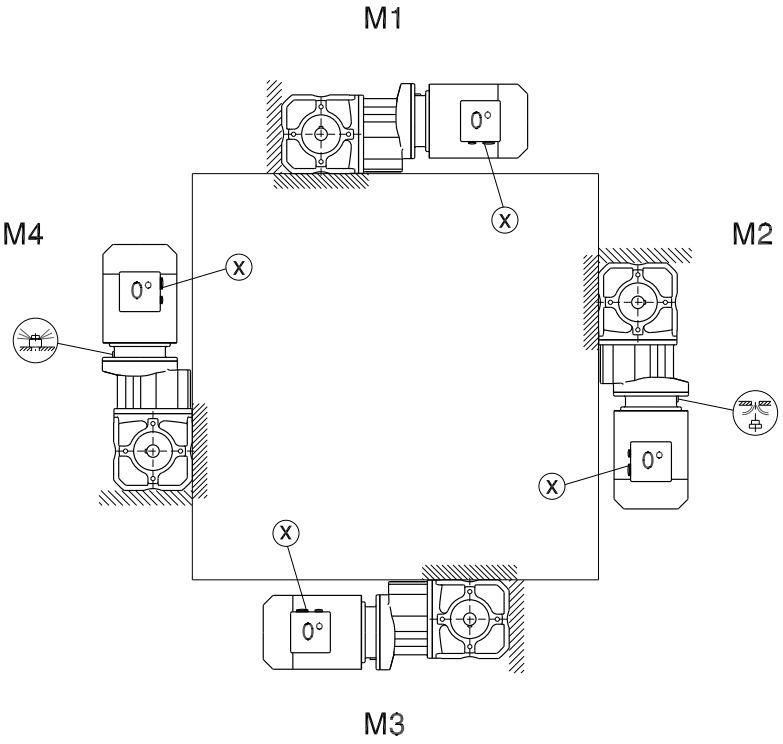


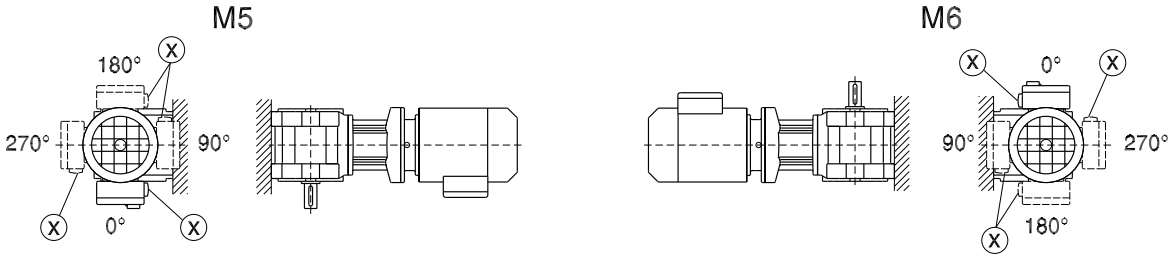
M3



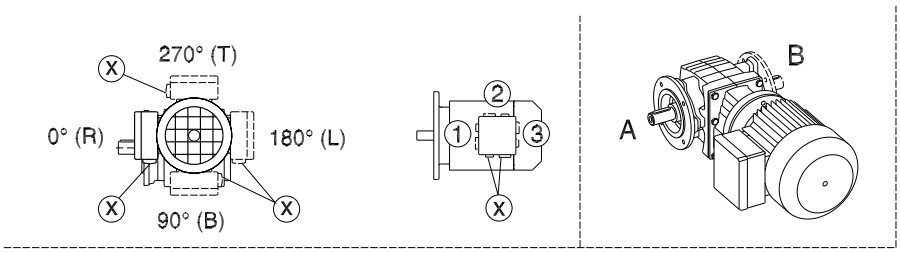
20 012 01 07

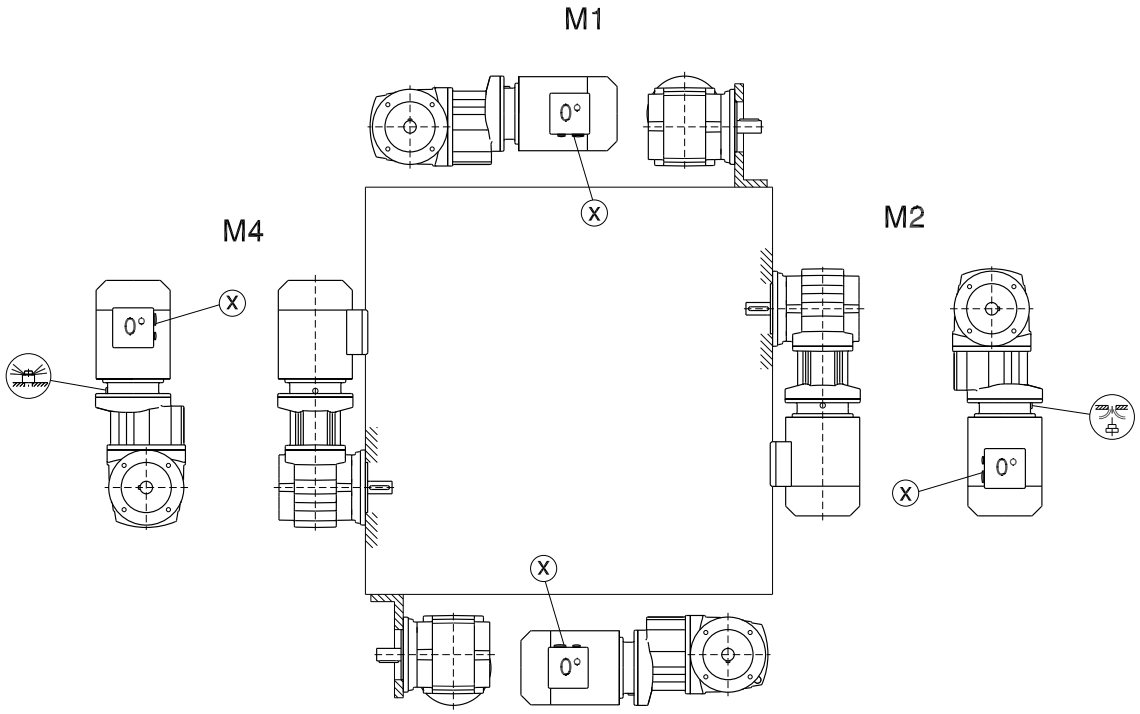


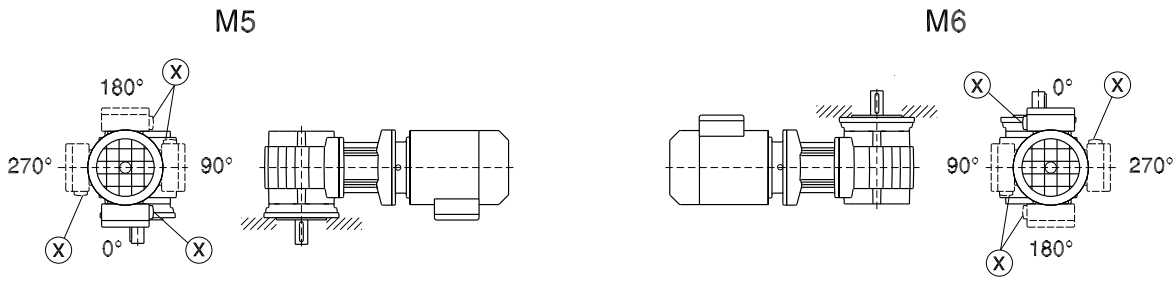




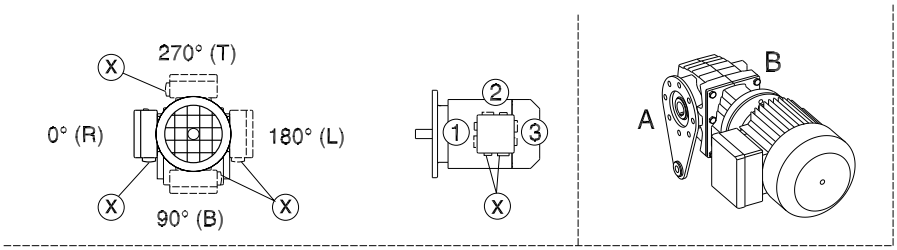
20 013 01 07

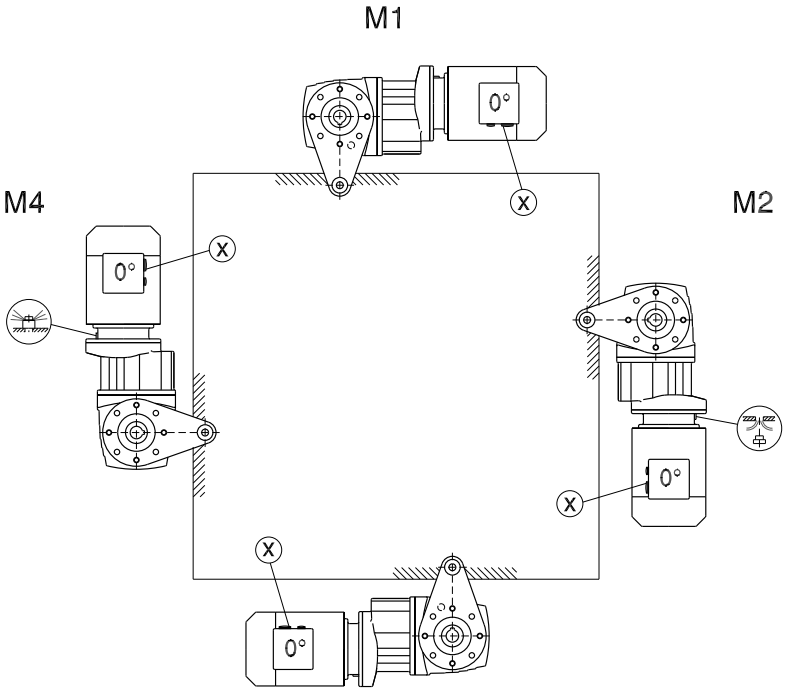


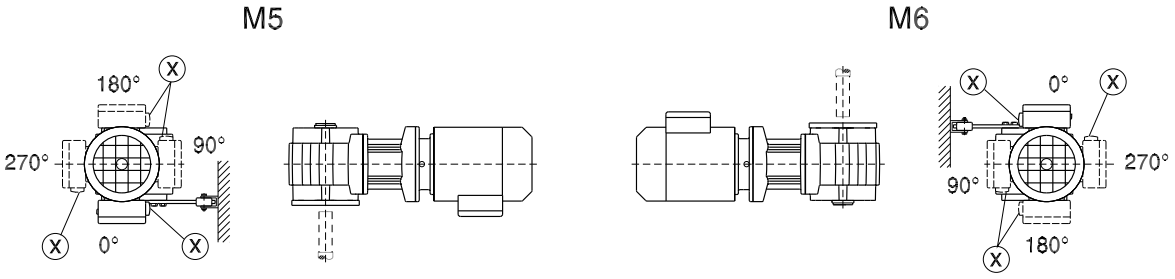




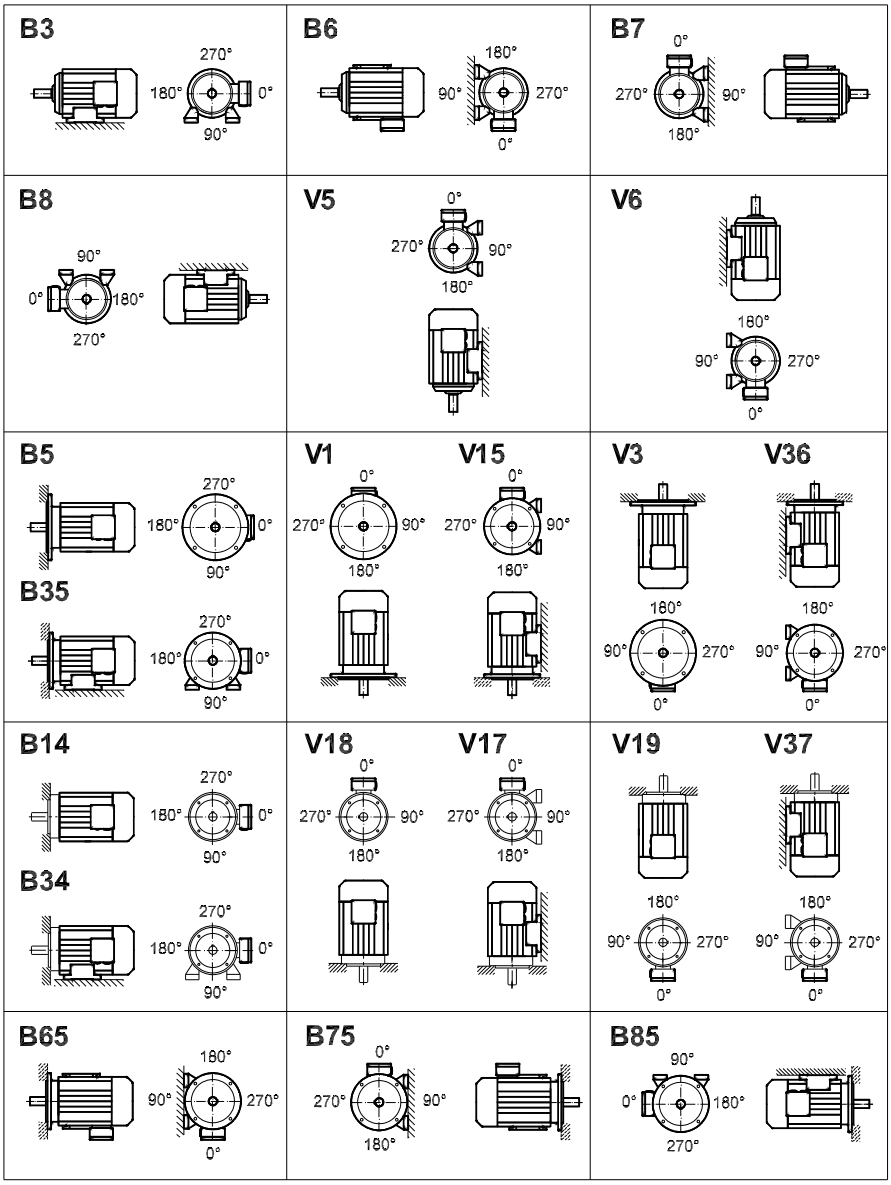
20 014 01 07







5.9 Mounting positions of AC motors



3975313547

6 Design and Operating Notes

6.1 Lubricants and fill quantities for R, F, K, S, W gear units

6.1.1 General information

Unless a special arrangement is made, SEW-EURODRIVE supplies the explosion-proof drives with a lubricant fill adapted for the specific gear unit and mounting position. The decisive factor is the mounting position (M1 – M6, → chapter "Mounting positions and important order information") specified when ordering the drive.

You must adapt the lubricant fill in case of any subsequent changes made to the mounting position (see "Lubricant fill quantities"). It is essential that you contact SEW-EURODRIVE in such cases.

6.1.2 Lubricant table

The lubricant table on the following page shows the permitted lubricants for SEW-EURODRIVE gear units. Observe the following key to the lubricant table.

Key to the lubricant table

Abbreviations, meaning of shading and notes:

CLP	= Mineral oil
CLP PG	= Polyglycol (W gear units, conforms to USDA-H1)
CLP HC	= Synthetic hydrocarbons
E	= Ester oil (water hazard classification 1)
HCE	= Synthetic hydrocarbons + ester oil (USDA - H1 certification)
HLP	= Hydraulic oil
	= Synthetic lubricant (= synthetic-based roller bearing grease)
	= Mineral lubricant (= mineral-based rolling bearing grease)

1)	Helical-worm gear units with PG oil: please consult SEW-EURODRIVE
2)	Special lubricant for SPIROPLAN® gear units only
3)	SEW-$f_B \geq 1.2$ required
4)	Observe the critical starting behavior at low temperatures.
5)	Low-viscosity grease
6)	Ambient temperature
	Lubricant for the food industry (food grade oil)
	Biodegradable oil (lubricant for agriculture, forestry, and water management)

Lubricant table

The following table shows the assignment of lubricants to gear units:

01 751 05 04

	6) °C	DIN (ISO)	ISO,NLGI	Mobil®	Shell	Klüber	ARAL	bp	TEXACO	Castrol Tribol	Castrol Optimol	FUCHS	TOTAL
R...	-50 0 +50 +100	CLP(CC)	VG 220	Mobilgear 600 XP 220	Shell Omala 220	Klüberoil GEM 1-220 N	Aral Degol BG 220	BP Energol GR-XP 220	Meropa 220	Tribol 1100/220	Optigear BM 220	Renolin CLP 220	Carter EP 220
K...(HK...)	Standard -15 +40	CLP PG	VG 220	Mobil Glygoyle 220	Shell Tivela S 220	Klübersynth GH 6-220	Aral Degol GS 220	BP Enersyn SG-XP 220	Synlube CLP 220	Tribol 800/220	Optiflex A 220	Renolin PG 220	Carter SY 220
	-20 +80												
	4) -20 +60	CLP HC	VG 220	Mobil SHC 630	Shell Omala HD 220	Klübersynth GEM 4-220 N	Aral Degol PAS 220		Pinnacle EP 220	Tribol 1510/220	Optigear Synthetic X 220	Renolin Unisyn CLP 220	
	4) -40 +40	CLP HC	VG 150	Mobil SHC 629	Shell Omala HD 150	Klübersynth GEM 4-150 N			Pinnacle EP 150		Optigear Synthetic X 150	Renolin Unisyn CLP 150	Carter SH 150
F...	-20 +25	CLP (CC)	VG 150 VG 100	Mobilgear 600 XP 100	Shell Omala 100	Klüberoil GEM 1-150 N	Aral Degol BG 100	BP Energol GR-XP 100	Meropa 150	Tribol 1100/100	Optigear BM 100	Renolin CLP 150	Carter EP 100
	-30 +10	HLP (HM)	VG 68-46 VG 32	Mobil DTE 10 Excel 32	Shell Tellus T 32	Klüberoil GEM 1-68 N	Aral Degol BG 46		Rando EP Ashless 46	Tribol 1100/68	Optigear 32	Renolin B 46 HVI	Equivis ZS 46
	4) -40 +20	CLP HC	VG 68	Mobil SHC 626	Shell Omala HD 68							Renolin Unisyn CLP 68	
	4) -40 +0	CLP HC	VG 32	Mobil SHC 624		Klüber-Summit HySyn FG-32			Cetus PAO 46		Optilieb HY 32	Renolin Unisyn OL 32	Dacnis SH 32
	4) -40 -20	HLP (HM)	VG 22 VG 15	Mobil DTE 10 Excel 15	Shell Tellus T 15	Isoflex MT 30 ROT		BP Energol HLP-HM 15	Rando HDZ 15		Hyspin AWS 22	Renolin MR 310	Equivis ZS 15
S...(HS...)	Standard 0 +40	CLP (CC)	VG 680	Mobilgear 600 XP 680	Shell Omala 680	Klüberoil GEM 1-680 N	Aral Degol BG 680	BP Energol GR-XP 680	Meropa 680	Tribol 1100/680	Optigear BM 680	Renolin SEW 680	Carter EP 680
	-20 +80	CLP PG	VG 680	1) Mobil Glygoyle 680	Shell Tivela S 680	Klübersynth GH 6-680		BP Enersyn SG-XP 680	Synlube CLP 680	Tribol 800/680	Optiflex A 680	Renolin PG 680	
	4) -20 +60	CLP HC	VG 460	Mobil SHC 634	Shell Omala HD 460	Klübersynth GEM 4-460 N			Pinnacle EP 460		Optigear Synthetic X 460	Renolin Unisyn CLP 460	
	4) -40 +30	CLP HC	VG 150	Mobil SHC 629	Shell Omala HD 150	Klübersynth GEM 4-150 N			Pinnacle EP 150		Optigear Synthetic X 150	Renolin Unisyn CLP 150	Carter SH 150
	-20 +10	CLP (CC)	VG 150 VG 100	Mobilgear 600 XP 100	Shell Omala 100	Klüberoil GEM 1-150 N	Aral Degol BG 100	BP Energol GR-XP 100	Meropa 150	Tribol 1100/100	Optigear BM 100	Renolin CLP 150	Carter EP 100
	-20 +40	CLP PG	VG 220	1) Mobil Glygoyle 220	Shell Tivela S 220	Klübersynth GH 6-220	Aral Degol GS 220	BP Enersyn SG-XP 220	Synlube CLP 220	Tribol 800/220	Optiflex A 220	Renolin PG 220	Carter SY 220
	4) -40 +20	CLP HC	VG 68	Mobil SHC 626	Shell Omala HD 68							Renolin Unisyn CLP 68	
	4) -40 0	CLP HC	VG 32	Mobil SHC 624		Klüber-Summit HySyn FG-32			Cetus PAO 46		Alphasyn T32	Renolin Unisyn OL 32	Dacnis SH 32
R...,K...(HK...), F...,S...(HS...)	4) -10 +40	CLPHC NSF H1	VG 460		Shell Cassida Fluid GL 460	Klüberoil 4UH1-460 N					Optileb GT 460	Geralyn SF 460	
	-20 +30		VG 220		Shell Cassida Fluid GL 220	Klüberoil 4UH1-220 N					Optileb GT 220		
	-40 0		VG 68		Shell Cassida Fluid HF 68	Klüberoil 4UH1-68 N					Optileb HY 68		
	-20 +40	E	VG 460			Klüberbio CA2-460				Tribol Bio Top 1418/460		Plantogear 460 S	
W...(HW...)	Standard -20 +40	CLP PG 460 -SEW	VG 460 2)			Klüber SEW HT-460-5							
	4) -40 +10	API GL5	SAE 75W90 (-VG 100)	Mobil Synthetic Gear Oil 75 W90									
	-20 +60	H1 PG	VG 460 2) 3)			Klübersynth UH1 6-460							
PS.F..	Standard -20 +40	CLP PG	VG 220			Klübersynth GH 6-220							
	-20 +60	H1 PG	VG 460 2) 3)			Klübersynth UH1 6-460							
	-40 0	CLP HC	VG 32	Mobil SHC 624									
PS.C..	Standard -10 +40	CLP (CC)	VG 220	Mobilgear 600 XP 220									
	-20 +40	DIN 51 818	00 5)	Mobilux EP 004									
	-20 +40		1 7)			Klübersynth UH1 14-151							
	-40 0	CLP HC	VG 32	Mobil SHC 624									
BS.F..	Standard -40 +40	API GL5	SAE 75W90 (-VG 100)	Mobil Synth Gear Oil 75 W90									
	-20 +60	H1 PG	VG 460 2) 3)			Klübersynth UH1 6-460							

4311484555

6.1.3 Lubricant fill quantities

The specified fill quantities are **guide values**. The precise values vary depending on the number of stages and gear ratio. When filling, it is essential to check the **oil level plug since it indicates the precise oil volume**.

The following tables show guide values for lubricant fill quantities in relation to the mounting position M1 – M6.

Helical (R) gear units

RX..

Gear unit	Fill quantity in liters					
	M1	M2	M3	M4	M5	M6
RX57	0.60	0.80	1.30	1.30	0.90	0.90
RX67	0.80	0.80	1.70	1.90	1.10	1.10
RX77	1.10	1.50	2.60	2.70	1.60	1.60
RX87	1.70	2.50	4.80	4.80	2.90	2.90
RX97	2.10	3.40	7.4	7.0	4.80	4.80
RX107	3.90	5.6	11.6	11.9	7.7	7.7

RXF..

Gear unit	Fill quantity in liters					
	M1	M2	M3	M4	M5	M6
RXF57	0.50	0.80	1.10	1.10	0.70	0.70
RXF67	0.70	0.80	1.50	1.40	1.00	1.00
RXF77	0.90	1.30	2.40	2.00	1.60	1.60
RXF87	1.60	1.95	4.90	3.95	2.90	2.90
RXF97	2.10	3.70	7.1	6.3	4.80	4.80
RXF107	3.10	5.7	11.2	9.3	7.2	7.2

R.., R..F

Gear unit	Fill quantity in liters					
	M1[1)]	M2	M3	M4	M5	M6
R07	0.12	0.20	0.20	0.20	0.20	0.20
R17	0.25	0.55	0.35	0.55	0.35	0.40
R27	0.25/0.40	0.70	0.50	0.70	0.50	0.50
R37	0.30/0.95	0.85	0.95	1.05	0.75	0.95
R47	0.70/1.50	1.60	1.50	1.65	1.50	1.50
R57	0.80/1.70	1.90	1.70	2.10	1.70	1.70
R67	1.10/2.30	2.40	2.80	2.90	1.80	2.00
R77	1.20/3.00	3.30	3.60	3.80	2.50	3.40
R87	2.30/6.0	6.4	7.2	7.2	6.3	6.5
R97	4.60/9.8	11.7	11.7	13.4	11.3	11.7
R107	6.0/13.7	16.3	16.9	19.2	13.2	15.9
R137	10.0/25.0	28.0	29.5	31.5	25.0	25.0
R147	15.4/40.0	46.5	48.0	52.0	39.5	41.0
R167	27.0/70.0	82.0	78.0	88.0	66.0	69.0

1) The larger gear unit of multi-stage gear units must be filled with the larger oil volume.

RF..

Gear unit	Fill quantity in liters					
	M1[1)]	M2	M3	M4	M5	M6
RF07	0.12	0.20	0.20	0.20	0.20	0.20
RF17	0.25	0.55	0.35	0.55	0.35	0.40
RF27	0.25/0.40	0.70	0.50	0.70	0.50	0.50
RF37	0.35/0.95	0.90	0.95	1.05	0.75	0.95
RF47	0.65/1.50	1.60	1.50	1.65	1.50	1.50
RF57	0.80/1.70	1.80	1.70	2.00	1.70	1.70
RF67	1.20/2.50	2.50	2.70	2.80	1.90	2.10
RF77	1.20/2.60	3.10	3.30	3.60	2.40	3.00
RF87	2.40/6.0	6.4	7.1	7.2	6.3	6.4
RF97	5.1/10.2	11.9	11.2	14.0	11.2	11.8
RF107	6.3/14.9	15.9	17.0	19.2	13.1	15.9
RF137	9.5/25.0	27.0	29.0	32.5	25.0	25.0
RF147	16.4/42.0	47.0	48.0	52.0	42.0	42.0
RF167	26.0/70.0	82.0	78.0	88.0	65.0	71.0

1) The larger gear unit of multi-stage gear units must be filled with the larger oil volume.

Parallel-shaft helical (F) gear units

F.., FA..B, FH..B, FV..B

Gear unit	Fill quantity in liters					
	M1	M2	M3	M4	M5	M6
F..27	0.60	0.80	0.65	0.70	0.60	0.60
F..37	0.95	1.25	0.70	1.25	1.00	1.10
F..47	1.50	1.80	1.10	1.90	1.50	1.70
F..57	2.60	3.50	2.10	3.50	2.80	2.90
F..67	2.70	3.80	1.90	3.80	2.90	3.20
F..77	5.9	7.3	4.30	8.0	6.0	6.3
F..87	10.8	13.0	7.7	13.8	10.8	11.0
F..97	18.5	22.5	12.6	25.2	18.5	20.0
F..107	24.5	32.0	19.5	37.5	27.0	27.0
F..127	40.5	54.5	34.0	61.0	46.3	47.0
F..157	69.0	104.0	63.0	105.0	86.0	78.0

FF..

Gear unit	Fill quantity in liters					
	M1	M2	M3	M4	M5	M6
FF27	0.60	0.80	0.65	0.70	0.60	0.60
FF37	1.00	1.25	0.70	1.30	1.00	1.10
FF47	1.60	1.85	1.10	1.90	1.50	1.70
FF57	2.80	3.50	2.10	3.70	2.90	3.00
FF67	2.70	3.80	1.90	3.80	2.90	3.20
FF77	5.9	7.3	4.30	8.1	6.0	6.3
FF87	10.8	13.2	7.8	14.1	11.0	11.2
FF97	19.0	22.5	12.6	25.6	18.9	20.5
FF107	25.5	32.0	19.5	38.5	27.5	28.0
FF127	41.5	55.5	34.0	63.0	46.3	49.0
FF157	72.0	105.0	64.0	106.0	87.0	79.0

FA.., FH.., FV.., FAF.., FAZ.., FHF.., FHZ.., FVF.., FVZ.., FT..

Gear unit	Fill quantity in liters					
	M1	M2	M3	M4	M5	M6
F..27	0.60	0.80	0.65	0.70	0.60	0.60
F..37	0.95	1.25	0.70	1.25	1.00	1.10
F..47	1.50	1.80	1.10	1.90	1.50	1.70
F..57	2.70	3.50	2.10	3.40	2.90	3.00
F..67	2.70	3.80	1.90	3.80	2.90	3.20
F..77	5.9	7.3	4.30	8.0	6.0	6.3
F..87	10.8	13.0	7.7	13.8	10.8	11.0
F..97	18.5	22.5	12.6	25.2	18.5	20.0
F..107	24.5	32.0	19.5	37.5	27.0	27.0
F..127	39.0	54.5	34.0	61.0	45.0	46.5
F..157	68.0	103.0	62.0	104.0	85.0	77.0

Helical-bevel (K) gear units

K.., KA..B, KH..B, KV..B

Gear unit	Fill quantity in liters					
	M1	M2	M3	M4	M5	M6
K..37	0.50	1.00	1.00	1.25	0.95	0.95
K..47	0.80	1.30	1.50	2.00	1.60	1.60
K..57	1.10	2.20	2.20	2.80	2.30	2.10
K..67	1.10	2.40	2.60	3.45	2.60	2.60
K..77	2.20	4.10	4.40	5.8	4.20	4.40
K..87	3.70	8.0	8.7	10.9	8.0	8.0
K..97	7.0	14.0	15.7	20.0	15.7	15.5
K..107	10.0	21.0	25.5	33.5	24.0	24.0
K..127	21.0	41.5	44.0	54.0	40.0	41.0
K..157	31.0	62.0	65.0	90.0	58.0	62.0
K..167	33.0	95.0	105.0	123.0	85.0	84.0
K..187	53.0	152.0	167.0	200	143.0	143.0

KF..

Gear unit	Fill quantity in liters					
	M1	M2	M3	M4	M5	M6
KF37	0.50	1.10	1.10	1.50	1.00	1.00
KF47	0.80	1.30	1.70	2.20	1.60	1.60
KF57	1.20	2.20	2.40	3.15	2.50	2.30
KF67	1.10	2.40	2.80	3.70	2.70	2.70
KF77	2.10	4.10	4.40	5.9	4.50	4.50
KF87	3.70	8.2	9.0	11.9	8.4	8.4
KF97	7.0	14.7	17.3	21.5	15.7	16.5
KF107	10.0	21.8	25.8	35.1	25.2	25.2
KF127	21.0	41.5	46.0	55.0	41.0	41.0
KF157	31.0	66.0	69.0	92.0	62.0	62.0

KA.., KH.., KV.., KAF.., KHF.., KVF.., KAZ.., KHZ.., KVZ.., KT..

Gear unit	Fill quantity in liters					
	M1	M2	M3	M4	M5	M6
K..37	0.50	1.00	1.00	1.40	1.00	1.00
K..47	0.80	1.30	1.60	2.15	1.60	1.60
K..57	1.20	2.20	2.40	3.15	2.70	2.40
K..67	1.10	2.40	2.70	3.70	2.60	2.60
K..77	2.10	4.10	4.60	5.9	4.40	4.40
K..87	3.70	8.2	8.8	11.1	8.0	8.0
K..97	7.0	14.7	15.7	20.0	15.7	15.7
K..107	10.0	20.5	24.0	32.4	24.0	24.0
K..127	21.0	41.5	43.0	52.0	40.0	40.0
K..157	31.0	66.0	67.0	87.0	62.0	62.0

Helical-worm (S) gear units

S

Gear unit	Fill quantity in liters					
	M1	M2	M3[1)]	M4	M5	M6
S..37	0.25	0.40	0.50	0.55	0.40	0.40
S..47	0.35	0.80	0.70/0.90	1.00	0.80	0.80
S..57	0.50	1.20	1.00/1.20	1.45	1.30	1.30
S..67	1.00	2.00	2.20/3.10	3.10	2.60	2.60
S..77	1.90	4.20	3.70/5.4	5.9	4.40	4.40
S..87	3.30	8.1	6.9/10.4	11.3	8.4	8.4
S..97	6.8	15.0	13.4/18.0	21.8	17.0	17.0

1) The larger gear unit of multi-stage gear units must be filled with the larger oil volume.

SF..

Gear unit	Fill quantity in liters					
	M1	M2	M3[1)]	M4	M5	M6
SF37	0.25	0.40	0.50	0.55	0.40	0.40
SF47	0.40	0.90	0.90/1.05	1.05	1.00	1.00
SF57	0.50	1.20	1.00/1.50	1.55	1.40	1.40
SF67	1.00	2.20	2.30/3.00	3.20	2.70	2.70
SF77	1.90	4.10	3.90/5.8	6.5	4.90	4.90
SF87	3.80	8.0	7.1/10.1	12.0	9.1	9.1
SF97	7.4	15.0	13.8/18.8	22.6	18.0	18.0

1) The larger gear unit of multi-stage gear units must be filled with the larger oil volume.

SA.., SH.., SAF.., SHZ.., SAZ.., SHF.., ST..

Gear unit	Fill quantity in liters					
	M1	M2	M3[1)]	M4	M5	M6
S..37	0.25	0.40	0.50	0.50	0.40	0.40
S..47	0.40	0.80	0.70/0.90	1.00	0.80	0.80
S..57	0.50	1.10	1.00/1.50	1.50	1.20	1.20
S..67	1.00	2.00	1.80/2.60	2.90	2.50	2.50
S..77	1.80	3.90	3.60/5.0	5.8	4.50	4.50
S..87	3.80	7.4	6.0/8.7	10.8	8.0	8.0
S..97	7.0	14.0	11.4/16.0	20.5	15.7	15.7

1) The larger gear unit of multi-stage gear units must be filled with the larger oil volume.

SPIROPLAN® (W) gear units

The fill quantity of SPIROPLAN® gear units W..10 to W..30 does not vary, irrespective of their mounting position. Only the fill quantity of SPIROPLAN® gear units W..37 and W..47 in mounting position M4 is different from that of other mounting positions.

W.., WF.., WA..B, WH..B

Gear unit	Fill quantity in liters					
	M1	M2	M3	M4	M5	M6
W..10	0.16					
W..20	0.24					
W..30	0.40					
W..37	0.50			0.70	0.50	
W..47	0.90			1.40	0.90	

WA.., WAF.., WT.., WH.., WHF..

Gear unit	Fill quantity in liters					
	M1	M2	M3	M4	M5	M6
W..10	0.16					
W..20	0.24					
W..30	0.40					
W..37	0.50			0.70	0.50	
W..47	0.80			1.25	0.80	

6.1.4 Bearing greases

The rolling bearings in gear units and motors are given a factory-fill with the greases listed below. SEW-EURODRIVE recommends regreasing rolling bearings with a grease fill at the same time as changing the oil and replacing the rolling bearings.

	Ambient temperature	Manufacturer	Type
Gear unit rolling bearings	-40 °C – +80 °C	Fuchs	Renolit CX-TOM15[1)]
Motor rolling bearings[2)]	-20 °C – +80 °C	Esso	Polyrex EM
	+20 °C – +100 °C	Klüber	Barrierta L55/2
	-40 °C – +60 °C	Kyodo Yushi	Multemp SRL[3)]
Special greases for gear unit rolling bearings:			
	-30 °C – +40 °C	Aral	Aral Eural Grease EP 2
	-20 °C – +40 °C	Aral	Aral Aralube BAB EP2

1) Rolling bearing grease based on semi-synthetic base oil.

2) The motor rolling bearings are covered on both sides and cannot be regreased.

3) Recommended for continuous operation at ambient temperatures below 0 °C, for example in a cold storage.

INFORMATION

The following grease quantities are required:

- For fast-running bearings (gear unit input end): Fill the cavities between the rolling elements one-third full with grease.
- For slow-running bearings (in gear units and at gear unit output end): Fill the cavities between the rolling elements two-thirds full with grease.

6.2 Reduced backlash gear unit types

Helical, parallel-shaft helical and helical-bevel gear units with reduced backlash are available as of gear unit size 37. The circumferential backlash of these gear units is considerably less than that of the standard variants so that positioning tasks can be solved with great precision. The circumferential backlash is specified in angular minutes ['] in the technical data. The circumferential backlash for the output shaft is specified without load (max. 1% of the rated output torque); the gear unit input end is blocked. The reduced backlash variant is available for the following gear units:

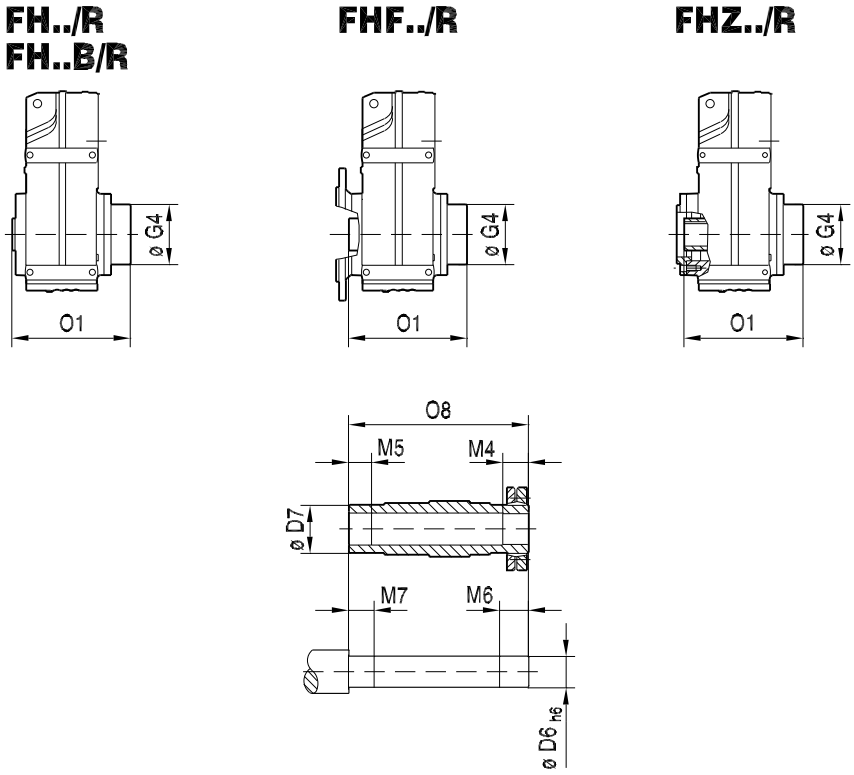
- Helical gear units (R), sizes 37 to 167
- Parallel-shaft helical gear units (F), sizes 37 to 157
- Helical-bevel gear units (K), sizes 37 to 187

Multi-stage gear units are not available with reduced backlash.

The dimensions of the reduced backlash variants correspond to the dimensions of the standard designs, except for parallel-shaft gear units FH.87 and FH.97 with reduced backlash.

The following figure shows the deviating dimensions of the FH.87 and FH.97 gear units with reduced backlash:

42 020 00 09



4517179915

Type	D6	D7	G4	M4	M5	M6	M7	O1	O8
FH.87/R	Ø 65 $_{h6}$	Ø 85	Ø 163	41	40	46	45	312.5	299.5
FH.97/R	Ø 75 $_{h6}$	Ø 95	Ø 184	55	50	60	55	382.5	367

6.3 Installation/removal of gear units with hollow shaft and key

INFORMATION

- Always use the supplied NOCO® fluid for installation. The fluid prevents contact corrosion and facilitates subsequent disassembly.
- The key dimension X is specified by the customers, but X > DK must apply, see following figure.

6.3.1 Installation

SEW-EURODRIVE recommends 2 variants for installing gear units with hollow shaft and key onto the input shaft of the driven machine (= customer shaft):

1. Use the provided fastening parts for installation.
2. Use the optional installation/removal kit for installation.

1. Supplied fastening parts

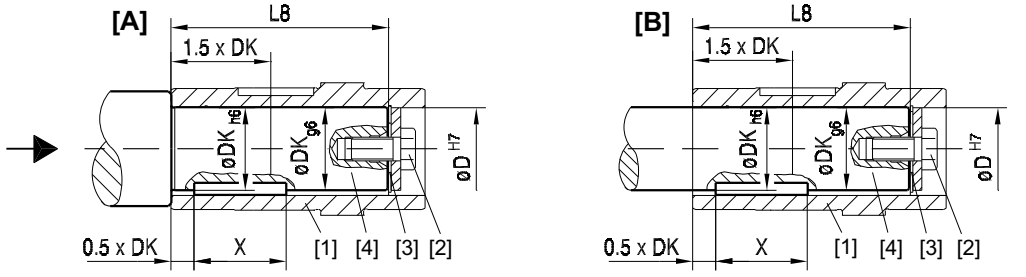
The following fastening parts are provided as standard:

- Retaining screw with washer (2)
- Retaining ring (3)

Note the following points concerning the customer shaft:

- The installation length of the customer shaft with contact shoulder (A) must be L8 - 1 mm.
- The installation length of the customer shaft without contact shoulder (B) must equal L8.

The following figure shows the customer shaft with contact shoulder (A) and without contact shoulder (B).



[1] Hollow shaft
[2] Retaining screw with washer
[3] Retaining ring
[4] Customer shaft

Dimensions and tightening torque:

The retaining screw (2) must be tightened to the tightening torque MS given in the following table:

Gear unit type	D^{H7} in mm	DK in mm	L8 in mm	MS in Nm
WA..10	16	16	69	8
WA..20	18	18	84	
WA..20	20	20	84	
FA..27	25	25	88	20
WA..30, WA..37	20	20	105	8
SA..37, BSAF202			104	
FA..37, KA..37, SA..47	30	30	105	20
BSAF302	25	25	118	
SA..47, WA..37			105	
SAF402	30	30	138	
FA..47, KA..47, SA..57	35	35	132	
WA..47	30	30	122	
SA..57			132	
FA..57, KA..57	40	40	142	40
BSAF502			158	
FA..67, KA..67			156	
SA..67			144	
SA..67	45	45	144	
BSAF602	55	55	179	80
FA..77, KA..77, SA..77	50	50	183	40
SA..77	60	60	180	80
FA..87, KA..87			210	
SA..87			220	
SA..87	70	70	220	
BSAF802	60	60	222	
FA..97, KA..97	70	70	270	
SA..97			260	
FA..107, KA..107	80	80	313	
SA..97	90	90	255	200
FA..107, KA..107	90	90	313	
FA..127, KA..127	100	100	373	
FA..157, KA..157	120	120	460	

2. Installation/ removal kit

You can use the optional installation/removal kit for installation. You order the kit for the specific gear unit type(s) by quoting the part numbers in the table below. The delivery includes:

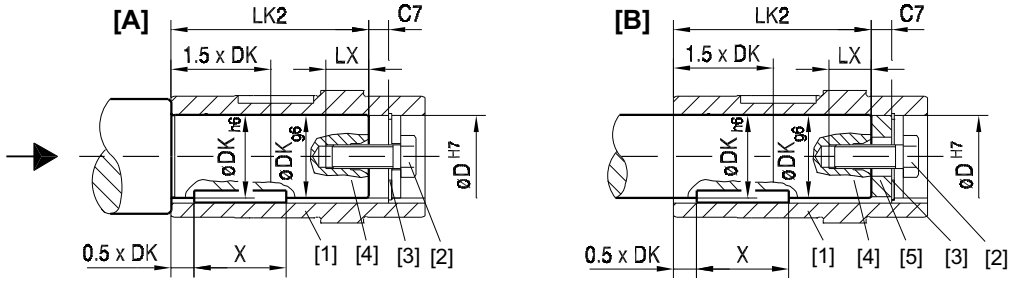
- Spacer tube for installation without contact shoulder (5)
- Retaining screw for installation (2)
- Forcing washer for removal (7)
- Locked nut for removal (8)

The short retaining screw delivered as standard is not required.

Note the following points concerning the customer shaft:

- The installation length of the customer shaft must be LK2. Do not use the spacer if the customer shaft **has a contact shoulder (A)**.
- The installation length of the customer shaft must be LK2. Use the spacer tube if the customer shaft **has no contact shoulder (B)**.

The following figure shows the customer shaft with contact shoulder (A) and without contact shoulder (B).



[1] Hollow shaft
[2] Retaining screw with washer
[3] Retaining ring
[4] Customer shaft
[5] Spacer tube

Dimensions, tightening torques and part numbers:

The retaining screw (2) must be tightened to the tightening torque MS given in the following table:

Type	D^{H7} mm	DK mm	LK2 mm	LX^{+2} mm	C7 mm	MS Nm	Part number of installation/removal set
WA..10	16	16	57	12.5	11	8	643 712 5
WA..20	18	18	72	16	12		643 682 X
WA..20, WA..30, WA..37	20	20	72, 93				643 683 8
SA..37	20	20	92	16	12	8	643 683 8
FA..27	25	25	72	22	16	20	643 684 6
SA..47			89				
WA..47	30	30	106				643 685 4
FA..37, KA..37			89				643 685 4
SA..47			89				
SA..57			116				
FA..47, KA..47, SA..57	35	35	114	28	18		643 686 2
FA..57, KA..57	40	40	124	36		40	643 687 0
FA..67			138				
KA..67			138				
SA..67			126				
SA..67	45	45	126				643 688 9
FA..77, KA..77, SA..77	50	50	165				643 689 7
FA..87, KA..87	60	60	188	42	22	80	643 690 0
SA..77			158				
SA..87			198				
FA..97, KA..97	70	70	248				643 691 9
SA..87			198				
SA..97			238				
FA..107, KA..107	80	80	287	42	26	80	106 821 12
FA..107, KA..107	90	90	287	50	26	200	643 692 7
SA..97			229				
FA..127, KA..127	100	100	347				643 693 5
FA..157, KA..157	120	120	434				643 694 3

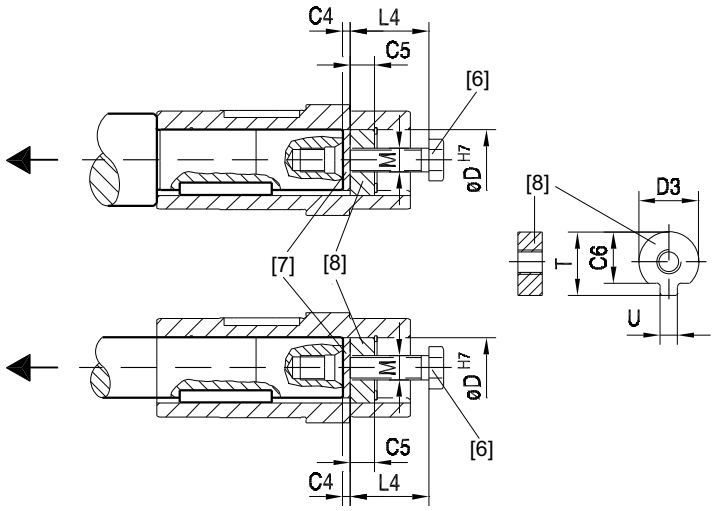
Removal

Applies only if installation/removal kit was previously used for installation.

Proceed as follows for removal:

1. Loosen the retaining screw (6).
2. Remove the circlip (3) and, if used, the spacer tube (5).
3. Insert the forcing disk (7) and the fixed nut (8) between the customer's shaft (4) and circlip (3) according to the following figure.
4. Re-install the circlip (3).
5. Re-install the retaining screw (6). Now you can force the gear unit off the shaft.

The following figures shows the removal of a gear unit with hollow shaft and key.



4308968971

[6] Retaining screw
[7] Forcing washer
[8] Locked nut for removal

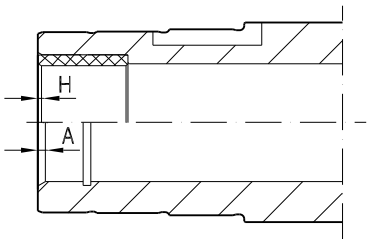
Dimensions and part numbers:

Type	D^{H7} mm	M	C4 mm	C5 mm	C6 mm	$U^{-0.5}$ mm	$T^{-0.5}$ mm	$D3^{-0.5}$ mm	L4 mm	Part number of installation/removal kit
WA..10	16	M5	5	5	12	4.5	18	15.7	50	643 712 5
WA..20	18	M6		6	13.5	5.5	20.5	17.7	25	643 682 X
WA..20, WA..30, WA..37, SA..37	20				15.5	5.5	22.5	19.7		643 683 8
FA27.., SA..47	25	M10		10	20	7.5	28	24.7	35	643 684 6
FA..37, KA..37, SA..47, SA..57, WA..47	30				25	7.5	33	29.7		643 685 4
FA..47, KA..47, SA..57	35	M12		12	29	9.5	38	34.7	45	643 686 2
FA..57, KA..57, FA..67, KA..67, SA..67	40	M16			34	11.5	41.9	39.7	50	643 687 0
SA..67	45				38.5	13.5	48.5	44.7		643 688 9
FA..77, KA..77, SA..77	50				43.5	13.5	53.5	49.7		643 689 7
FA..87, KA..87, SA..77, SA..87	60	M20		16	56	17.5	64	59.7	60	643 690 0
FA..97, KA..97, SA..87, SA..97	70				65.5	19.5	74.5	69.7		643 691 9
FA..107, KA..107	80	M20		20	75.7	21.5	85.4	79.7	70	106 821 12
FA..107, KA..107, SA..97	90	M24			80	24.5	95	89.7	70	643 692 7
FA..127, KA..127	100				89	27.5	106	99.7		643 693 5
FA..157, KA..157	120				107	31	127	119.7		643 694 3

6.4 Gear units with hollow shaft

6.4.1 Chamfers on hollow shafts

The following illustration shows the chamfers on parallel-shaft helical, helical-bevel, helical-worm and SPIROPLAN® gear units with hollow shaft:



4309448843

Gear unit	Variant	
	with hollow shaft (A)	with hollow shaft and shrink disk (H)
W..10 - W..30	2 × 30°	-
F..27	2 × 30°	0.5 × 45°
BS.F202	2 × 30°	0.5 × 45°
F../K../S../W..37	2 × 30°	0.5 × 45°
BS.F302	2 × 30°	0.5 × 45°
F../K../S../ W..47	2 × 30°	0.5 × 45°
BS.F402	2 × 30°	0.5 × 45°
S..57	2 × 30°	0.5 × 45°
F../K..57	2 × 30°	3 × 2°
BS.F502	2 × 30°	3 × 2°
F../K../S..67	2 × 30°	3 × 2°
BS.F602	2 × 30°	3 × 2°
F../K../S..77	2 × 30°	3 × 2°
BS.F702	2 × 30°	3 × 2°
F../K../S..87	3 × 30°	3 × 2°
BS.F802	2 × 30°	3 × 2°
F../K../S..97	3 × 30°	3 × 2°
F../K..107	3 × 30°	3 × 2°
F../K..127	5 × 30°	1.5 × 30°
F../K..157	5 × 30°	1.5 × 30°
KH167	-	1.5 × 30°
KH187	-	1.5 × 30°

6.4.2 Special motor/gear unit combinations

Please note for parallel-shaft helical gearmotors with hollow shaft (FA..B, FV..B, FH..B, FAF, FVF, FHF, FA, FV, FH, FT, FAZ, FVZ, FHZ):

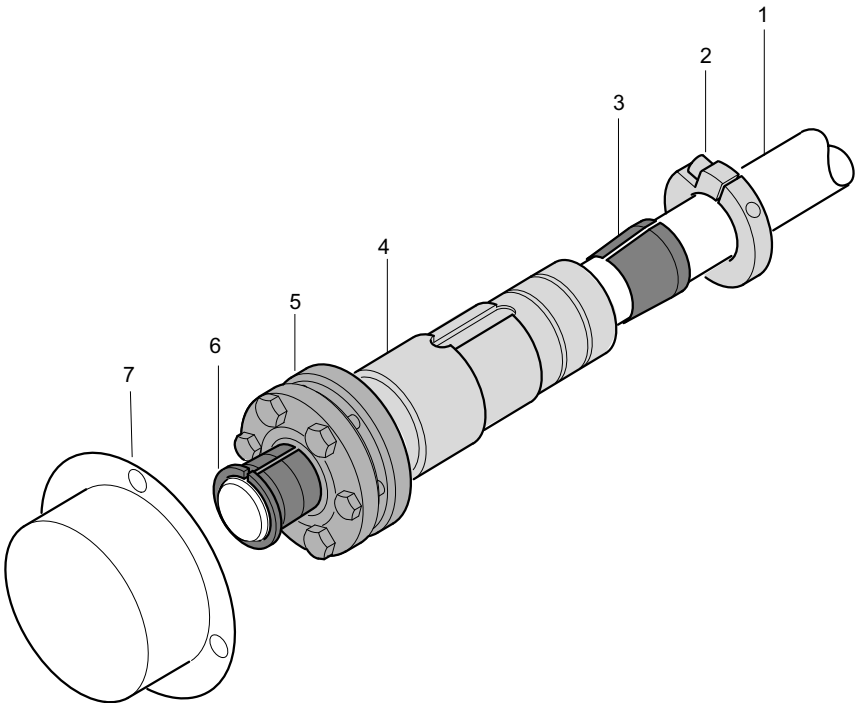
- If you are using a customer shaft pushed through on the motor end, there may be a collision when a "small gear unit" is used in combination with a "large motor."
- Check the motor dimension AC to decide whether there will be a collision with a pushed-through customer shaft.

6.5 TorqLOC® mounting system for hollow shaft gear units

6.5.1 Description of TorqLOC®

The TorqLOC® hollow shaft mounting system is used for achieving a non-positive connection between customer shaft and the hollow shaft in the gear unit. As a result, the TorqLOC® hollow shaft mounting system is an alternative to the hollow shaft with shrink disk, the hollow shaft with key and the splined hollow shaft that have been used so far.

The TorqLOC® hollow shaft mounting system consists of the following components:



4309625867

[1] Customer shaft
[2] Clamping ring
[3] Conical bronze bushing
[4] Hollow shaft in gear unit
[5] Shrink disk
[6] Conical steel bushing
[7] Fixed cover

6.5.2 Advantages of TorqLOC®

The TorqLOC® hollow shaft mounting system is characterized by the following advantages:

- Cost saving as the customer shaft can be made from drawn material up to quality h11.
- Cost saving as different customer shaft diameters can be realized with one hollow shaft diameter and different bushings.
- Simple installation as there is no need to accommodate any shaft connections.
- Simple removal even after many hours of operation as the formation of contact corrosion has been reduced and the conical connections can easily be released.

6.5.3 Technical data

The TorqLOC® hollow shaft mounting system is approved for input torques of 92 Nm to 18000 Nm.

The following gear units are available with TorqLOC® hollow shaft mounting system:

- Parallel-shaft helical gear units in gear unit sizes 37 to 157 (FT37 – FT157)
- Helical-bevel gear units in gear unit sizes 37 to 157 (KT37 – KT157)
- Helical-worm gear units in gear unit sizes 37 to 97 (ST37 – ST97)
- SPIROPLAN® gear unit sizes 37 and 47 (WT.7)

Available options

The following options are available for gear units with TorqLOC® hollow shaft mounting system:

- Helical-bevel, helical-worm and SPIROPLAN® gear units with TorqLOC® (KT.., ST.., WT.7..): The "torque arm" (../T) option is available.
- Parallel-shaft helical gear units with TorqLOC® (FT..): The "rubber buffer" (../G) option is available.

6.6 Gear unit with flange block shaft

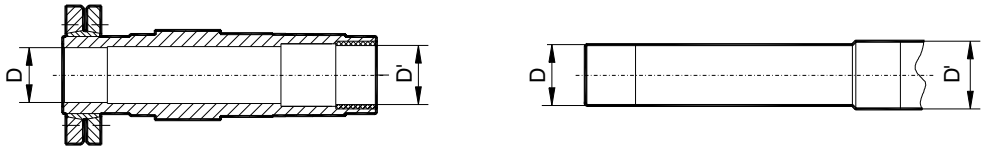
INFORMATION

Only use screws in **strength class 12.9** to fasten the output elements onto the flange block shaft of the gear unit.

6.7 Shouldered hollow shaft option with shrink disk

As an option, gear units with hollow shaft and shrink disk (parallel-shaft helical gear units FH/FHF/FHZ37 – 157, helical-bevel gear units KH/KHF/KHZ37 – 157 and helical-worm gear units SH/SHF47 – 97) can be supplied with a larger bore diameter D'.

As standard, D' = D.



Gear unit	Bore diameter D / optionally D' mm
FH/FHF/FHZ37, KH/KHF/KHZ37, SH/SHF/SHZ47	30 / 32
FH/FHF/FHZ47, KH/KHF/KHZ47, SH/SHF/SHZ57	35 / 36
FH/FHF/FHZ57, KH/KHF/KHZ57	40 / 42
FH/FHF/FHZ67, KH/KHF/KHZ67, SH/SHF/SHZ67	40 / 42
FH/FHF/FHZ77, KH/KHF/KHZ77, SH/SHF/SHZ77	50 / 52
FH/FHF/FHZ87, KH/KHF/KHZ87, SH/SHF/SHZ87	65 / 66
FH/FHF/FHZ97, KH/KHF/KHZ97, SH/SHF/SHZ97	75 / 76
FH/FHF/FHZ107, KH/KHF/KHZ107	95 / 96
FH/FHF/FHZ127, KH/KHF/KHZ127	105 / 106
FH/FHF/FHZ157, KH/KHF/KHZ157	125 / 126

Diameter D/D' must be specified when ordering gear units with a shouldered hollow shaft (optional bore diameter D').

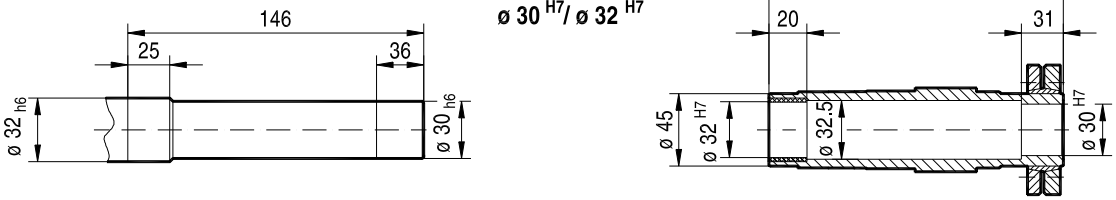
6.7.1 Sample order

FH37 DRS80M4 with hollow shaft 30/32 mm

6.7.2 Parallel-shaft helical gear units with shouldered hollow shaft (dimensions in mm):

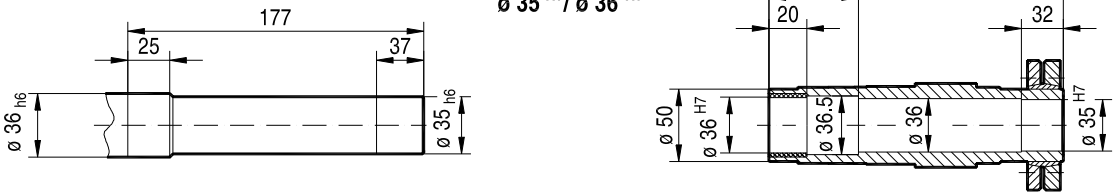
FH / FHF / FHZ37

ø 30 H7 / ø 32 H7



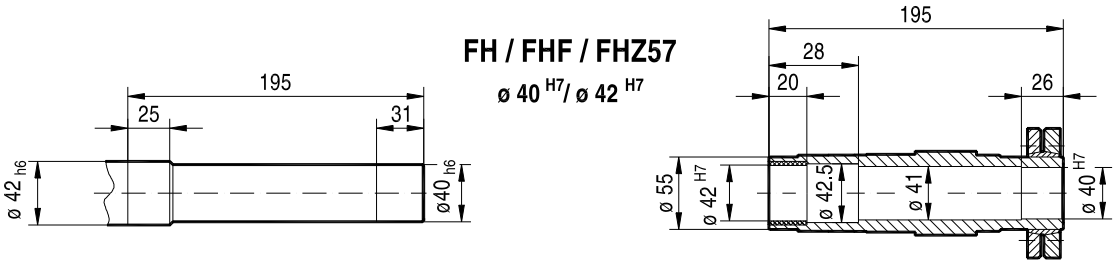
FH / FHF / FHZ47

ø 35 H7 / ø 36 H7



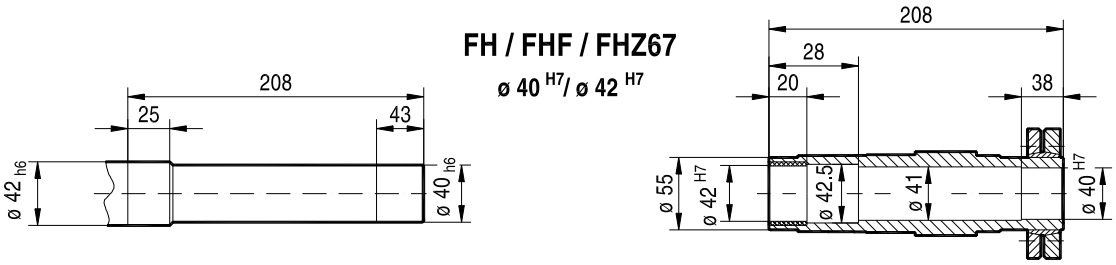
FH / FHF / FHZ57

ø 40 H7 / ø 42 H7



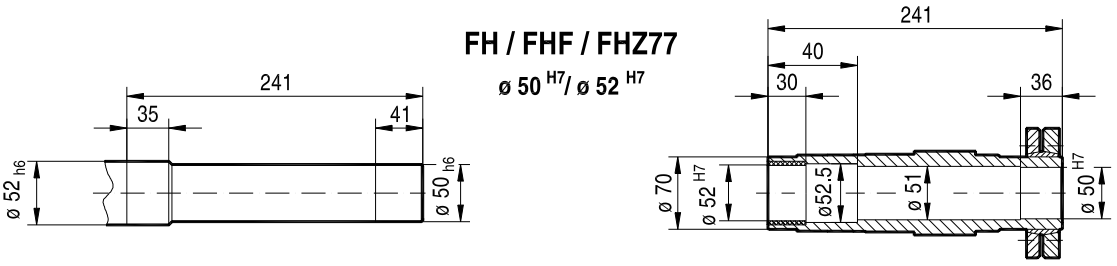
FH / FHF / FHZ67

ø 40 H7 / ø 42 H7



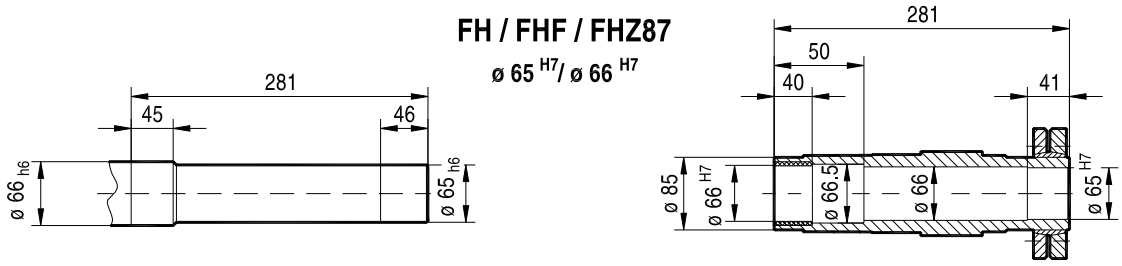
FH / FHF / FHZ77

ø 50 H7 / ø 52 H7



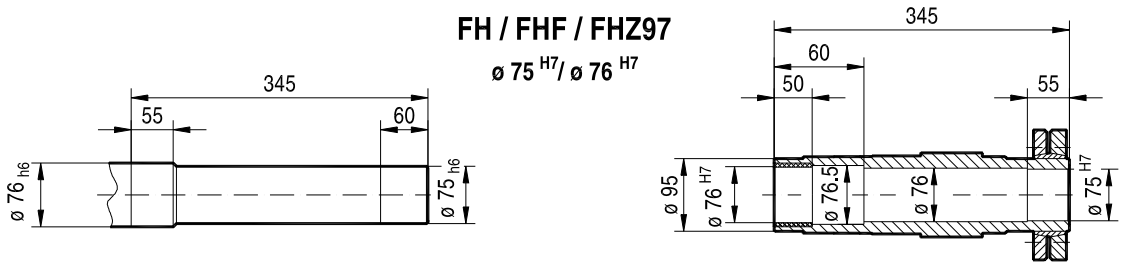
FH / FHF / FHZ87

ø 65 H7/ ø 66 H7



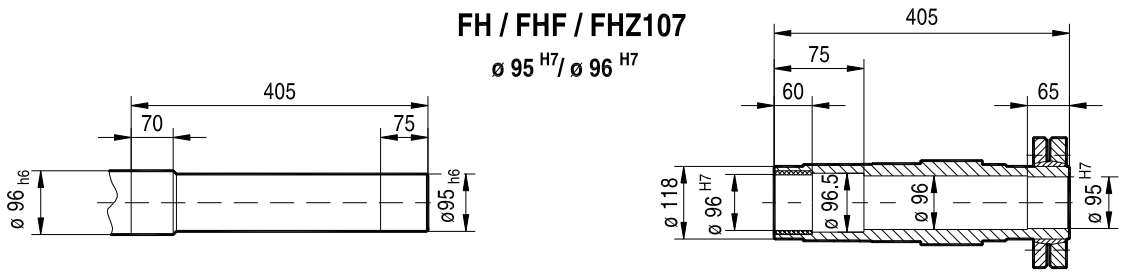
FH / FHF / FHZ97

ø 75 H7/ ø 76 H7



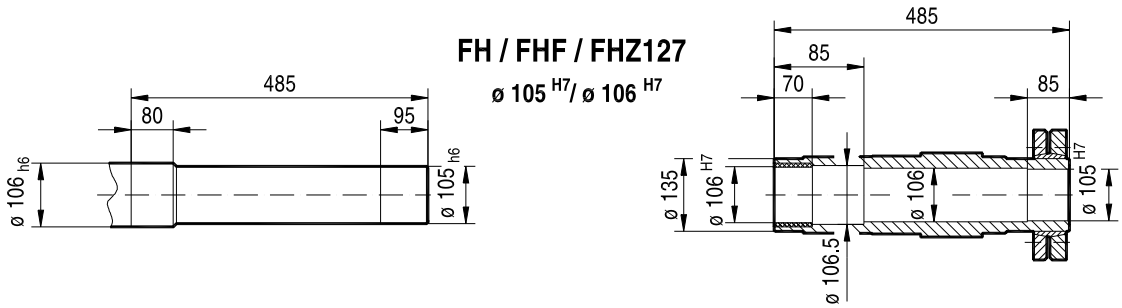
FH / FHF / FHZ107

ø 95 H7/ ø 96 H7



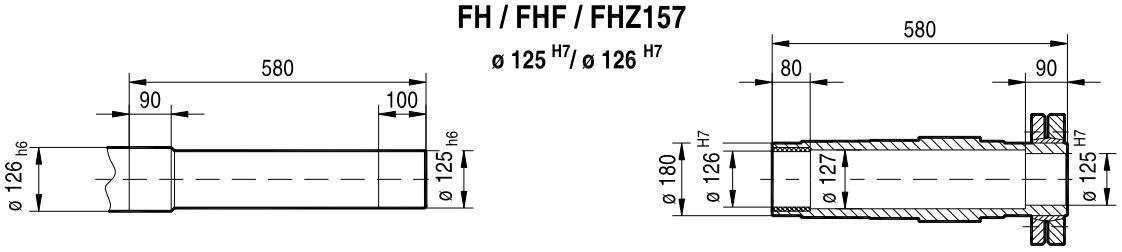
FH / FHF / FHZ127

ø 105 H7/ ø 106 H7



FH / FHF / FHZ157

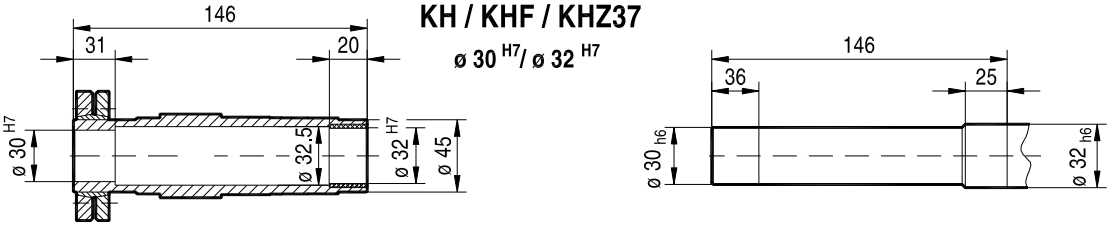
ø 125 H7/ ø 126 H7



6.7.3 Helical-bevel gear unit with shouldered hollow shaft (dimensions in mm):

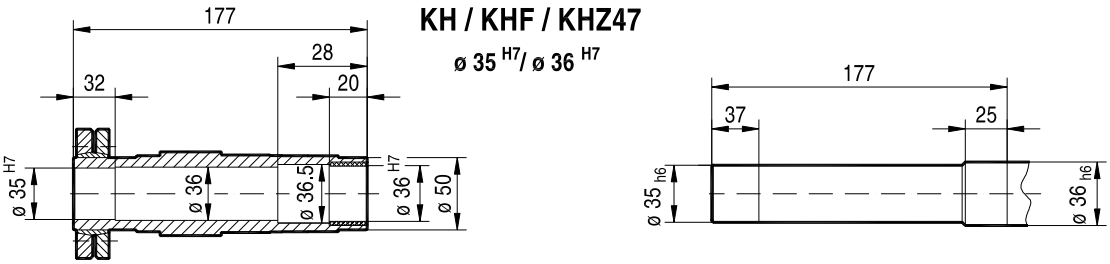
KH / KHF / KHZ37

ø 30 H7/ ø 32 H7



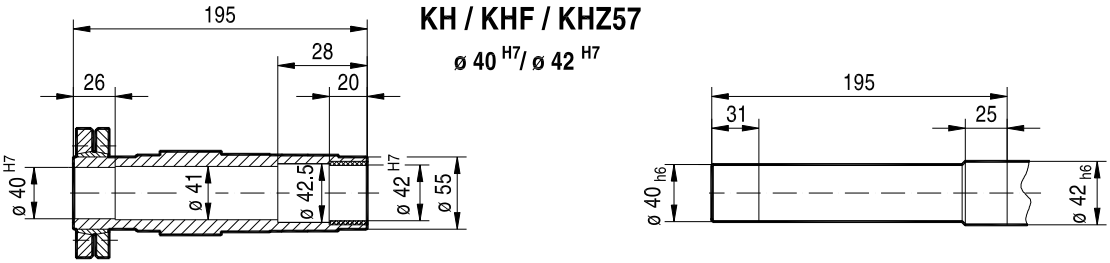
KH / KHF / KHZ47

ø 35 H7/ ø 36 H7



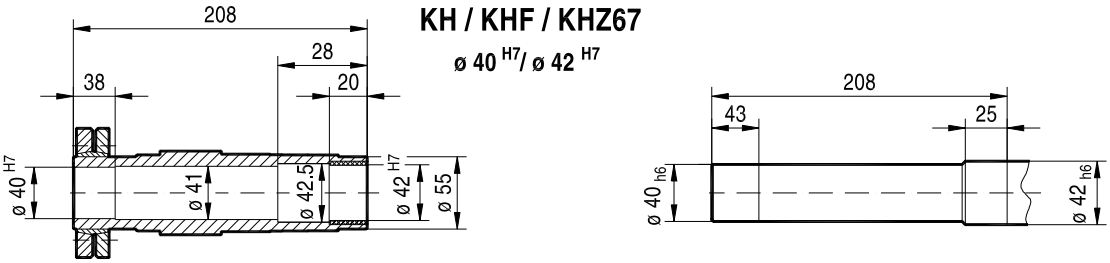
KH / KHF / KHZ57

ø 40 H7/ ø 42 H7



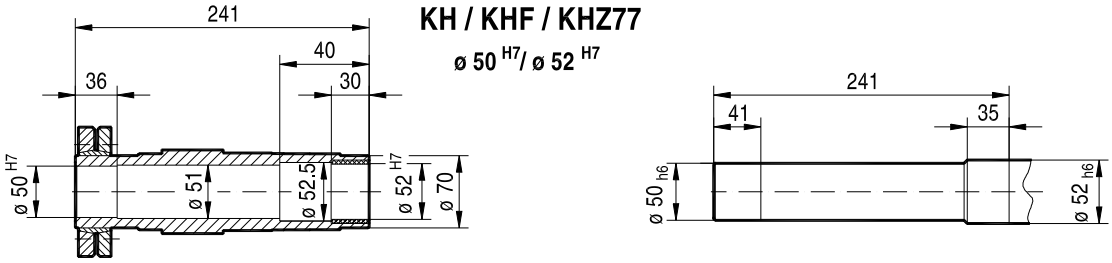
KH / KHF / KHZ67

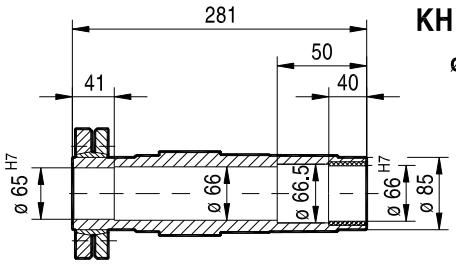
ø 40 H7/ ø 42 H7



KH / KHF / KHZ77

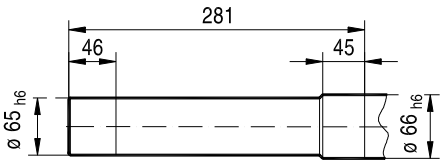
ø 50 H7/ ø 52 H7

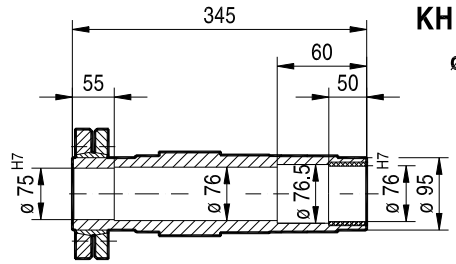




KH / KHF / KHZ87

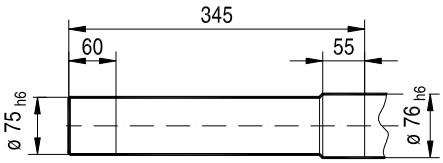
ø 65 H7/ ø 66 H7

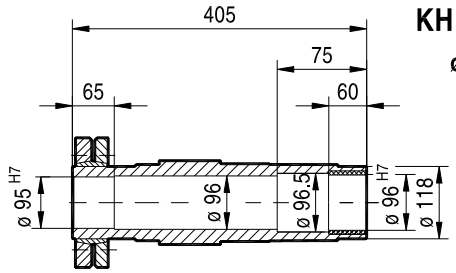




KH / KHF / KHZ97

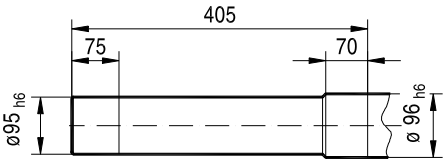
ø 75 H7/ ø 76 H7

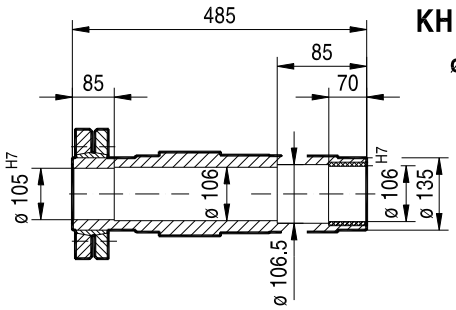




KH / KHF / KHZ107

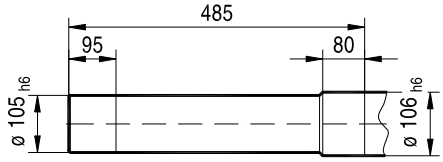
ø 95 H7/ ø 96 H7

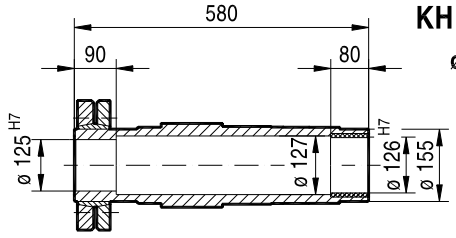




KH / KHF / KHZ127

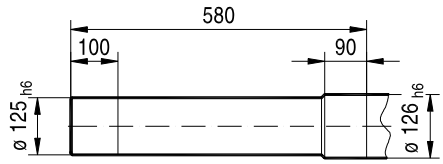
ø 105 H7/ ø 106 H7





KH / KHF / KHZ157

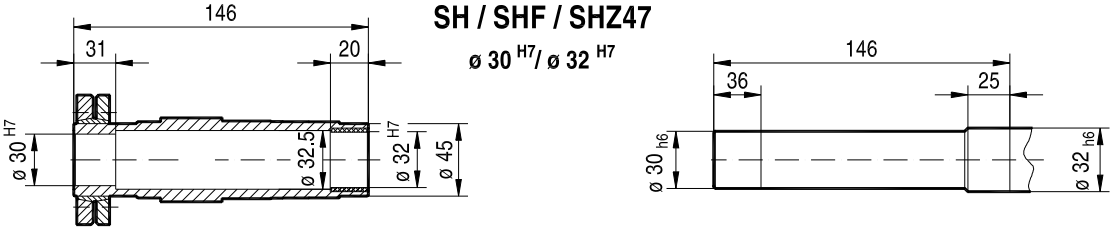
ø 125 H7/ ø 126 H7



6.7.4 Helical-worm gear units with shouldered hollow shaft (dimensions in mm):

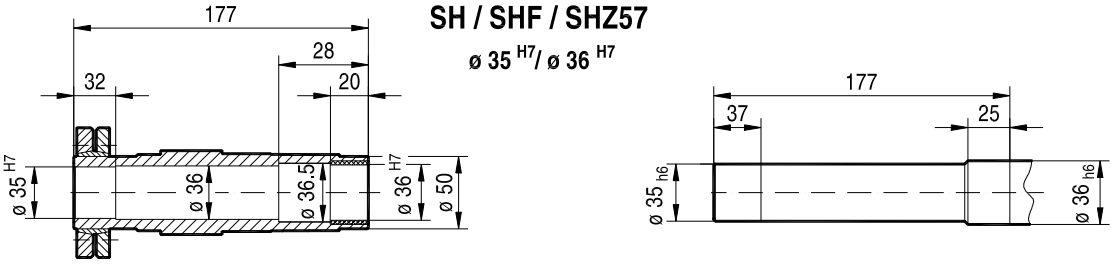
SH / SHF / SHZ47

ø 30 H7 / ø 32 H7



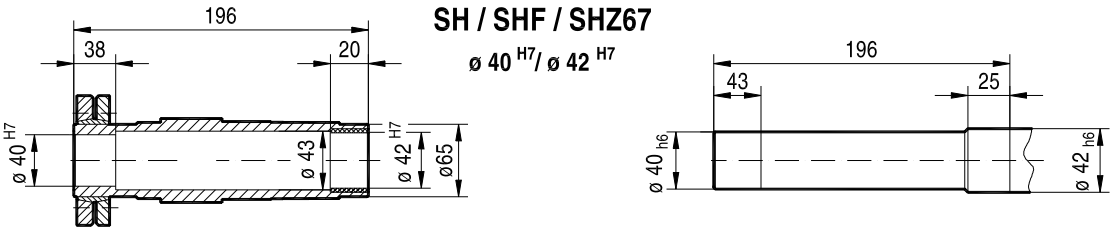
SH / SHF / SHZ57

ø 35 H7 / ø 36 H7



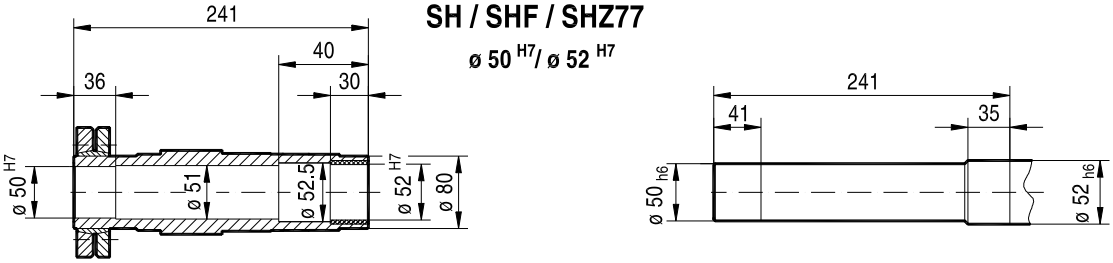
SH / SHF / SHZ67

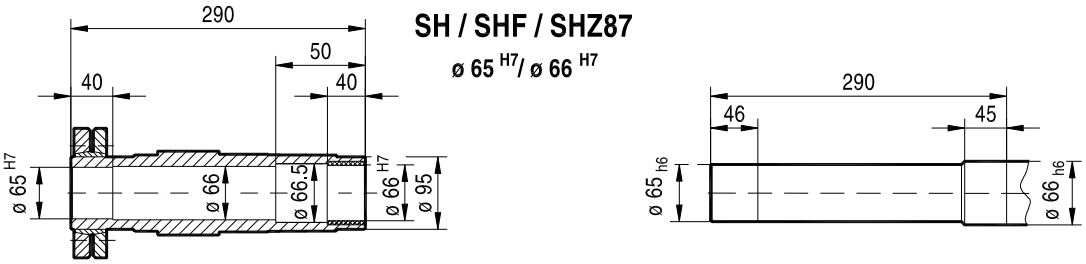
ø 40 H7 / ø 42 H7



SH / SHF / SHZ77

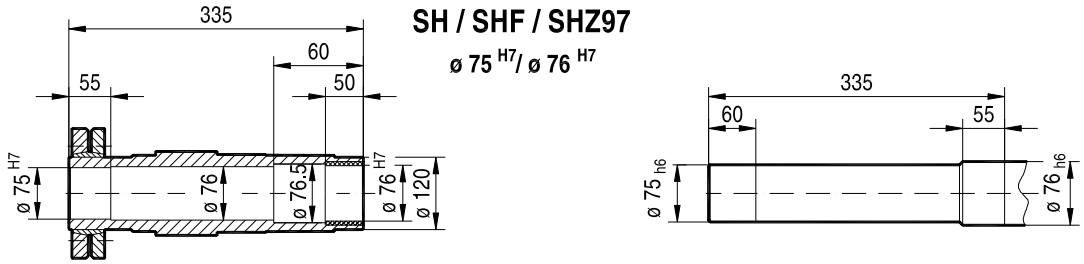
ø 50 H7 / ø 52 H7





SH / SHF / SHZ87

ø 65 H7/ ø 66 H7

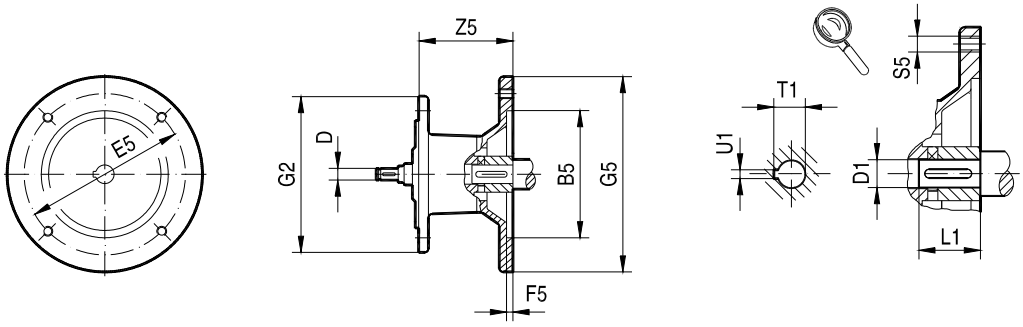


SH / SHF / SHZ97

ø 75 H7/ ø 76 H7

6.8 Adapter for installation of IEC motors

23 002 100



Gear unit type	Adapter type	Dimensions in mm											
		B5	D	E5	F5	G2	G5	S5	Z5	D1	L1	T1	U1
R..27, R..37	AM63	95	10	115	3.5	120	140	M8	72	11	23	12.8	4
F..27, F..37, F..47	AM71[1]	110		130	4		160			14	30	16.3	5
K..37	AM80[1]	130	12	165	4.5		200	M10	106	19	40	21.8	6
S..37, S..47, S..57	AM90[1]		14							24	50	27.3	8
W..37													
	AM63	95	10	115	3.5	160	140	M8	66	11	23	12.8	4
R..47[2], R..57, R..67	AM71	110		130	4		160			14	30	16.3	5
F..57, F..67	AM80	130	12	165	4.5		200	M10	99	19	40	21.8	6
K..47[2], K..57, K..67	AM90		14							24	50	27.3	8
S..67	AM100[1]	180	16	215	5		250	M12	134	28	60	31.3	8
W..47	AM112[1]		18										
	AM132S/M[1]	230	22	265			300		191	38	80	41.3	10
	AM63	95	10	115	3.5	200	140	M8	60	11	23	12.8	4
	AM71	110		130	4		160			14	30	16.3	5
R..77	AM80	130	12	165	4.5		200	M10	92	19	40	21.8	6
F..77	AM90		14							24	50	27.3	8
K..77	AM100[1]	180	16	215	5		250	M12	126	28	60	31.3	8
S..77	AM112[1]		18										
	AM132S/M[1]	230	22	265			300		179	38	80	41.3	10
	AM132ML[1]		28										
	AM80	130	12	165	4.5	250	200	M10	87	19	40	21.8	6
	AM90		14							24	50	27.3	8
R..87	AM100	180	16	215	5		250	M12	121	28	60	31.3	8
F..87	AM112		18										
K..87	AM132S/M	230	22	265			300		174	38	80	41.3	10
S..87[3]	AM132ML		28										
	AM160[1]	250	28	300	6		350	M16	232	42	110	45.3	12
	AM180[1]		32							48		51.8	14

1) Check dimension 1/2 G5 because component may protrude past foot-mounting surface if installed on R, K, S or W foot-mounted gear unit.

2) Not with AM112

3) Not with AM180

23 003 100

Fig.1

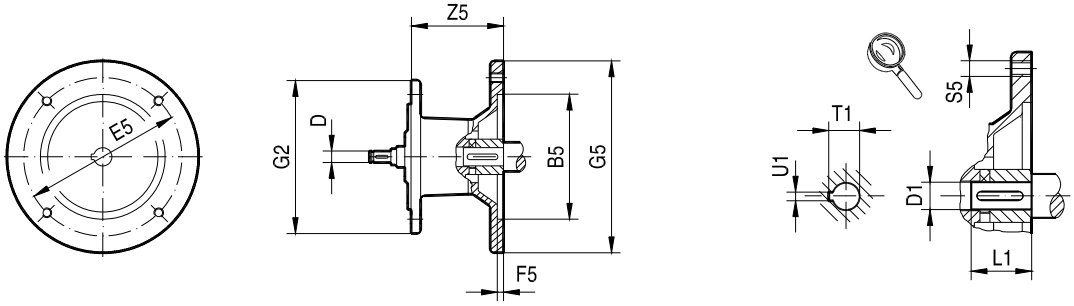
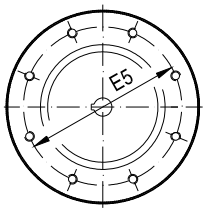


Fig.2



Gear unit type	Adapter type	Fig.	Dimensions in mm											
			B5	D	E5	F5	G2	G5	S5	Z5	D1	L1	T1	U1
R..97 F..97 K..97 S..97[1]	AM100	1	180	16	215	5	300	250	M12	116	28	60	31.3	8
	AM112			18										
	AM132S/M		230	22	265			300		169	38	80	41.3	10
	AM132ML			28										
	AM160		250	28	300	6		350	M16	227	42	110	45.3	12
	AM180			32							48		51.8	14
	AM200		300	38	350	7		400		268	55		59.3	16
R..107 F..107 K..107	AM100	1	180	16	215	5	350	250	M12	110	28	60	31.3	8
	AM112			18										
	AM132S/M		230	22	265			300		163	38	80	41.3	10
	AM132ML			28										
	AM160		250	28	300	6		350	M16	221	42	110	45.3	12
	AM180			32							48		51.8	14
	AM200		300	38	350	7		400		262	55		59.3	16
	AM225	2	350	38	400			450		277	60	140	64.4	18
R..137	AM132S/M	1	230	22	265	5	400	300	M12	156	38	80	41.3	10
	AM132ML			28										
	AM160		250	28	300	6		350	M16	214	42	110	45.3	12
	AM180			32							48		51.8	14
	AM200		300	38	350	7		400		255	55		59.3	16
	AM225	2	350	38	400			450		270	60	140	64.4	18

1) Not with AM200

23 004 100

Fig.1

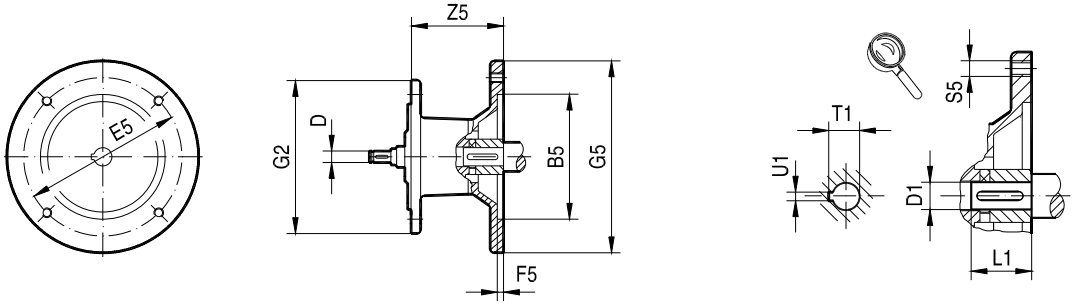
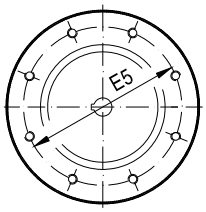
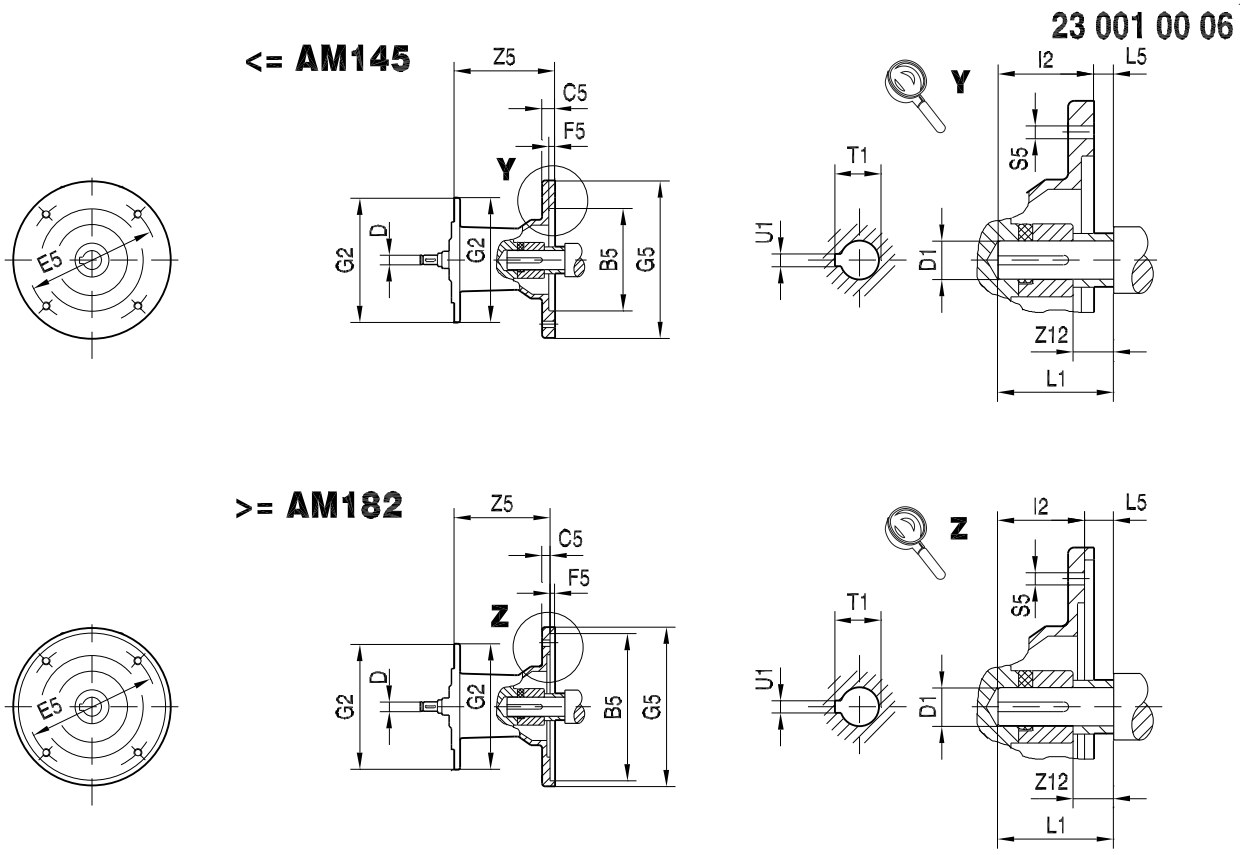


Fig.2

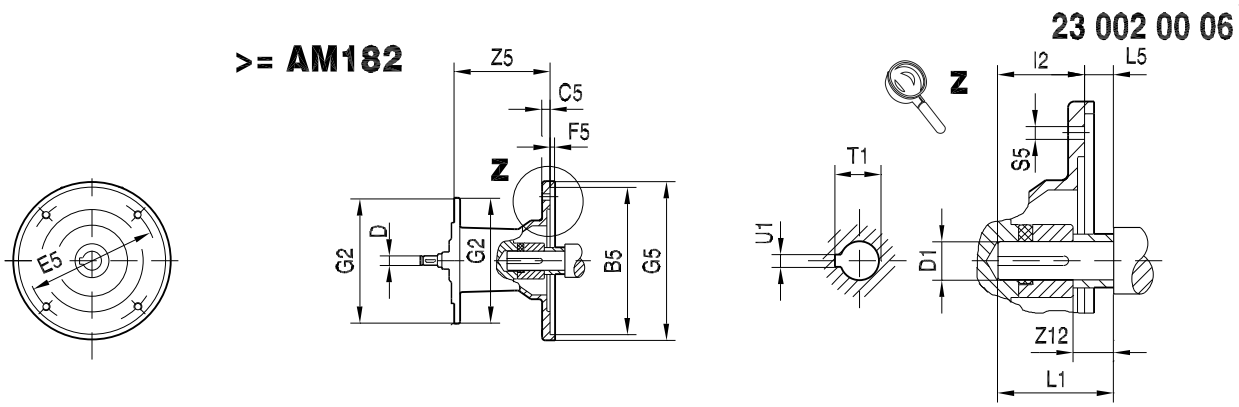


Gear unit type	Adapter type	Fig.	Dimensions in mm											
			B5	D	E5	F5	G2	G5	S5	Z5	D1	L1	T1	U1
R..147 F..127 K..127	**AM132S/M**	1	230	22	265	5	450	300	M12	148	38	80	41.3	10
	AM132ML			28							38			
	AM160		250	28	300	6		350	M16	206	42	110	45.3	12
	AM180			32							48		51.8	14
	AM200		300	38	350	7		400		247	55		59.3	16
	AM225	2	350	38	400			450		262	60	140	64.4	18
	AM250		450	48	500			550		336	65		69.4	
	AM280										75		79.9	20
R..167 F..157 K..157 K..167 K..187	**AM160**	1	250	28	300	6	550	350		198	42	110	45.3	12
	AM180			32							48		51.8	14
	AM200		300	38	350	7		400		239	55		59.3	16
	AM225	2	350	38	400			450		254	60	140	64.4	18
	AM250		450	48	500			550		328	65		69.4	
	AM280										75		79.9	20

6.9 Adapter for installation of NEMA motors



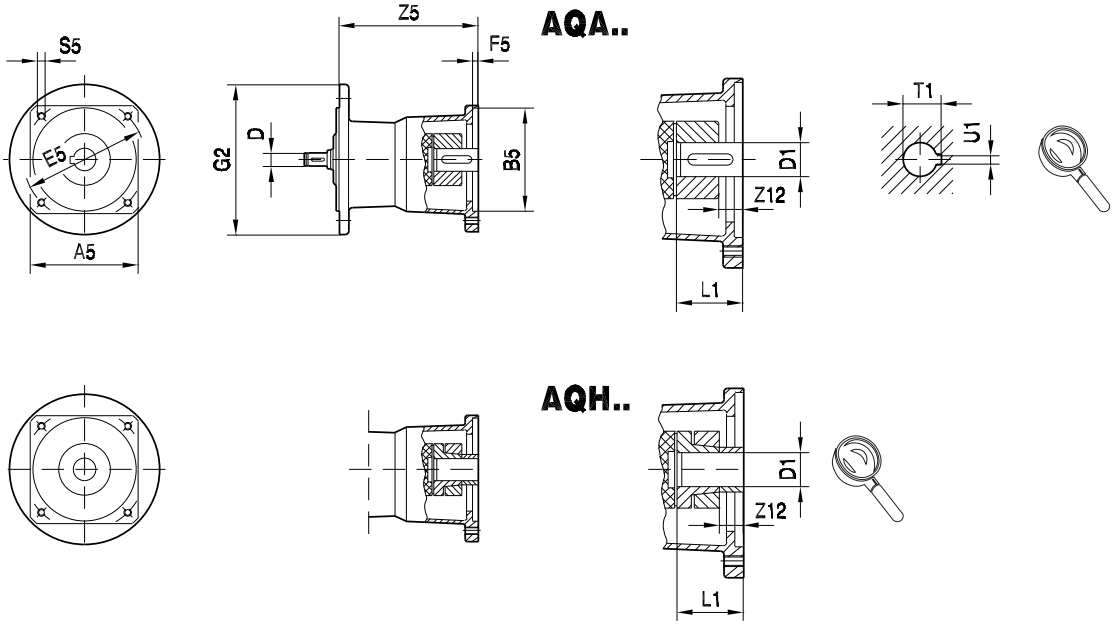
Gear unit type	Adapter type	Dimensions in mm															
		B5	C5	D	E5	F5	G2	G5	I2	L5	S5	Z5	Z12	D1	L1	T1	U1
R..27, R..37 F..27, F..37, F..47 K..37 S..37, S..47, S..57 W..37	AM56	114.3	11	10	149.2	4.5	120	170	52.55	-4.8	10.5	93.5	16.5	15,875	47	18.1	4.76
	AM143		12	12					54.1	3		117	14.5	22,225	57	24.7	
	AM145			14													
R..47, R..57, R..67 F..57, F..67 K..47, K..57, K..67 S..67 W..47	AM56	114.3	11	10	149.2	4.5	160	170	52.55	-4.8	10.5	87	16.5	15,875	47	18.1	4.76
	AM143		12	12					54.1	3		110.5	14.5	22,225	57	24.7	
	AM145			14													
	AM182	215.9	10	16	184	5		228	66.85	3	15	147.5	16.5	28,575	69	31.7	6.35
	AM184			18													
	AM213/215		11	22					79.55	6.3		200.5	15.8	34,925	85	38.7	7.94
R..77 F..77 K..77 S..77	AM56	114.3	11	10	149.2	4.5	200	170	52.55	-4.8	10.5	81	16.5	15,875	47	18.1	4.76
	AM143		12	12					54.1	3		103.5	14.5	22,225	57	24.7	
	AM145			14													
	AM182	215.9	10	16	184	5		228	66.85	3	15	139.5	16.5	28,575	69	31.7	6.35
	AM184			18													
	AM213/215		11	22					79.55	6.3		188.5	15.8	34,925	85	38.7	7.94
R..87 F..87 K..87 S..87	AM143	114.3	12	12	149.2	4.5	250	170	54.1	3	10.5	98.5	14.5	22,225	57	24.7	4.76
	AM145			14													
	AM182	215.9	10	16	184	5		228	66.85	3	15	134.5	16.5	28,575	69	31.7	6.35
	AM184			18													
	AM213/215		11	22					79.55	6.3		183.5	15.8	34,925	85	38.7	7.94
	AM254/256		12	28					95.3	6.3		234	8.8	41,275	101	45.8	9.53
	AM284/286	266.7	15	32	228.6	5		286	111.05	6.3	15	241	15.8	47,625	117	53.4	12.7



Gear unit type	Adapter type	Dimensions in mm														
		B5	C5	D	E5	F5	G2	G5	I2	L5	S5	Z5	Z12	D1	L1	T1	U1
R..97 F..97 K..97 S..97	AM182	215.9	10	16	184	5	300	228	66.85	3	15	129.5	16.5	28,575	69	31.7	6.35
	AM184			18													
	AM213/215		11	22					79.55	6.3		178.5	15.8	34,925	85	38.7	7.94
	AM254/256		12	28					95.3	6.3		229	8.8	41,275	101	45.8	9.53
	AM284/286	266.7	20	32	228.6	5		286	111.05	6.3	15	236	15.8	47,625	117	53.4	12.7
	AM324/326	317.5	17	38	279.4	5		356	127.05	6.3	17.5	296	34.8	53,975	133	60	12.7
	AM364/365			38					143.05					60,325	149	67.6	15,875
R..107 F..107 K..107	AM182	215.9	10	16	184	5	350	228	66.85	3	15	123.5	16.5	28,575	69.85	31.7	6.35
	AM184			18													
	AM213/215		11	22					79.55	6.3		172.5	15.8	34,925	85.85	38.7	7.94
	AM254/256		12	28					95.3	6.3		223	8.8	41,275	101.6	45.8	9.53
	AM284/286	266.7	15	32	228.6	5		286	111.05	6.3	15	230	15.8	47,625	117.35	53.4	12.7
	AM324/326	317.5	17	38	279.4	5		356	127.05	6.3	17.5	290	34.8	53,975	133.35	60	12.7
	AM364/365			38					143.05					60,325	149.35	67.6	15,875
R..137	AM213/215	215.9	11	22	184	5	400	228	79.55	6.3	15	165.5	15.8	34,925	85.85	38.7	7.94
	AM254/256		12	28					95.3	6.3		216	8.8	41,275	101.6	45.8	9.53
	AM284/286	266.7	15	32	228.6	5		286	111.05	6.3	15	223	15.8	47,625	117.35	53.4	12.7
	AM324/326	317.5	17	38	279.4	5		356	127.05	6.3	17.5	283	34.8	53,975	133.35	60	12.7
	AM364/365			38					143.05					60,325	149.35	67.6	15,875
R..147 F..127 K..127	AM213/215	215.9	11	22	184	5	450	228	79.55	6.3	15	157.5	15.8	34,925	85.85	38.7	7.94
	AM254/256		12	28					95.3	6.3		208	8.8	41,275	101.6	45.8	9.53
	AM284/286	266.7	15	32	228.6	5		286	111.05	6.3	15	215	15.8	47,625	117.35	53.4	12.7
	AM324/326	317.5	17	38	279.4	5		356	127.05	6.3	17.5	275	34.8	53,975	133.35	60	12.7
	AM364/365			38					143.05					60,325	149.35	67.6	15,875
R..167 F..157 K..157 K..167 K..187	AM254/256	215.9	12	28	184	5	550	228	95.3	6.3	15	200	8.8	41,275	101.6	45.8	9.53
	AM284/286	266.7	15	32	228.6	5		286	111.05	6.3	15	207	15.8	47,625	117.35	53.4	12.7
	AM324/326	317.5	17	38	279.4	5		356	127.05	6.3	17.5	267	34.8	53,975	133.35	60	12.7
	AM364/365			38					143.05					60,325	149.35	67.6	15,875

6.10 Adapter for mounting servomotors

23 005 01 00



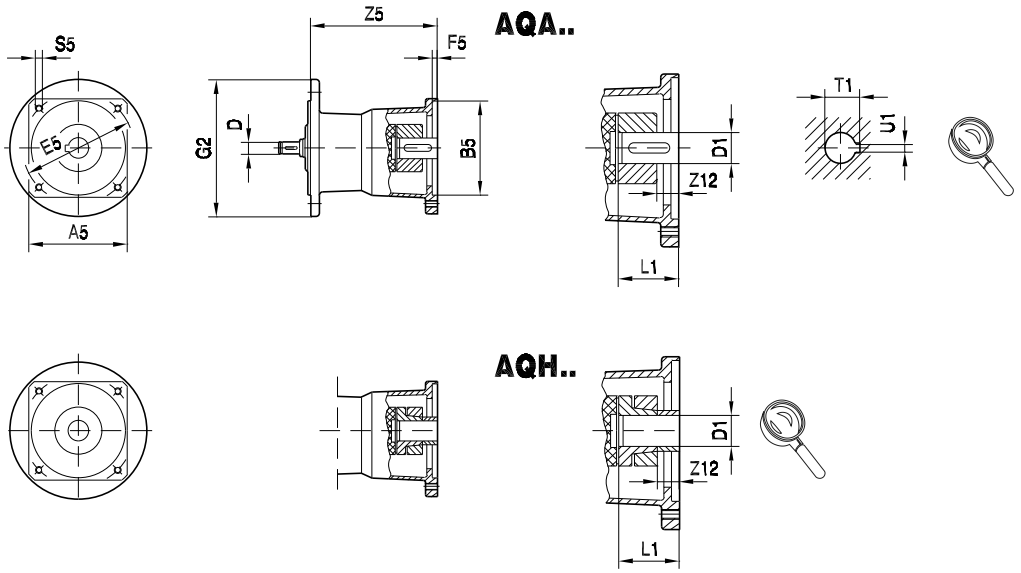
Gear unit type	Adapter type	Dimensions in mm													
		A5	B5	D	E5	F5	G2	S5	Z5	Z12[1]	Z12[2]	D1	L1	T1[1]	U1[1]
R..27, R..37 F..27, F..37, F..47 K..37 S..37, S..47, S..57 W..37	AQ..80/1	82	60	10 12	75	3	120	M5	104.5	5.5	5.5	11	23	12.8	4
	AQ..80/2											14	30	16.3	5
	AQ..80/3		50		95			M6							
	AQ..100/1	100	80	10 12 14 16	100	4		M6	129.5	-	-	14	30	16.3	5
	AQ..100/2		95		115			M8							
	AQ..100/3		80		100			M6	143.5	2	14	19	40	21.8	6
	AQ..100/4		95		115			M8							
	AQ..115/1	115	95		130			M8	152.5	11	23	19	40	21.8	6
	AQ..115/2		110												
	AQ..115/3									16	16	24	50	27.3	8
R..47, R..57, R..67 F..57, F..67 K..47[3], K..57, K..67 S..67 W..47	AQ..80/1	82	60	10 12	75	3	160	M5	98	5.5	5.5	11	23	12.8	4
	AQ..80/2											14	30	16.3	5
	AQ..80/3		50		95			M6							
	AQ..100/1	100	80	10 12 14 16	100	4		M6	122.5	-	-	14	30	16.3	5
	AQ..100/2		95		115			M8							
	AQ..100/3		80		100			M6	136.5	2	14	19	40	21.8	6
	AQ..100/4		95		115			M8							
	AQ..115/1	115	95		130			M8	145.5	11	23	19	40	21.8	6
	AQ..115/2		110												
	AQ..115/3									16	16	24	50	27.3	8
	AQ..140/1	140	110	16 18 22	165	5		M10	175	16	16	24	50	27.3	8
	AQ..140/2		130												
	AQ..140/3								188	22	22	32	60	35.5	10
	AQ..140/4											28		31.3	8
	AQ..160/1	162	155		190							32		35.3	10
	AQ..190/1	190	130	22 28	215			M12	237.5	24	24	32	60	35.3	10
	AQ..190/2		180												
	AQ..190/3								261.5	34	34	38	80	41.3	10

1) For variants with keyway (AQA..).

2) For variants with clamping ring hub (AQH..).

3) Not with AQ190

23 006 01 00

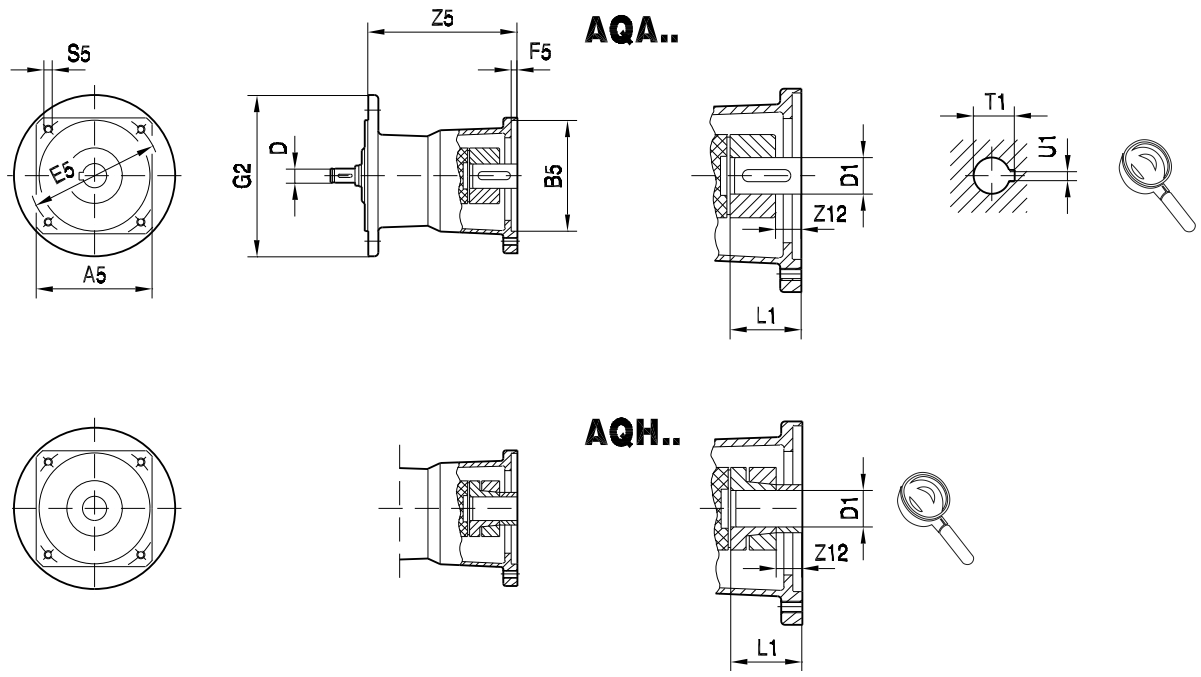


Gear unit type	Adapter type	Dimensions in mm													
		A5	B5	D	E5	F5	G2	S5	Z5	Z12[1]	Z12[2]	D1	L1	T1[1]	U1[1]
R..77 F..77 K..77 S..77	AQ..80/1	82	60	10 12	75	3	200	M5	92	5.5	5.5	11	23	12.8	4
	AQ..80/2				75							14	30	16.3	5
	AQ..80/3		50		95			M6							
	AQ..100/1	100	80	10 12 14 16	100	4		M6	115.5	-	-	14	30	16.3	5
	AQ..100/2		95		115			M8							
	AQ..100/3		80		100			M6	129.5	2	14	19	40	21.8	6
	AQ..100/4		95		115			M8							
	AQ..115/1	115	95		130			M8	138.5	11	23	19	40	21.8	6
	AQ..115/2		110												
	AQ..115/3									16	16	24	50	27.3	8
	AQ..140/1	140	110	16 18 22	165	5		M10	167	16	16	24	50	27.3	8
	AQ..140/2		130												
	AQ..140/3								180	22	22	32	60	35.3	10
	AQ..140/4											28		31.3	8
	AQ..160/1	162	155		190							32		35.3	10
	AQ..190/1	190	130	22 28	215			M12	225.5	24	24	32	60	35.3	10
	AQ..190/2		180												
	AQ..190/3								249.5	34	34	38	80	41.3	10
R..87 F..87 K..87 S..87	AQ..100/1	100	80	12 14 16	100	4	250	M6	110.5	-	-	14	30	16.3	5
	AQ..100/2		95		115			M8							
	AQ..100/3		80		100			M6	124.5	2	14	19	40	21.8	6
	AQ..100/4		95		115			M8							
	AQ..115/1	115	95		130			M8	133.5	11	23	19	40	21.8	6
	AQ..115/2		110												
	AQ..115/3									16	16	24	50	27.3	8
	AQ..140/1	140	110	16 18 22	165	5		M10	162	16	16	24	50	27.3	8
	AQ..140/2		130												
	AQ..140/3								175	22	22	32	60	35.3	10
	AQ..140/4											28		31.3	8
	AQ..160/1	162	155		190							32		35.3	10
	AQ..190/1	190	130	22 28	215			M12	220.5	24	24	32	60	35.3	10
	AQ..190/2		180												
	AQ..190/3								244.5	34	34	38	80	41.3	10

1) For variants with keyway (AQA..).

2) For variants with clamping ring hub (AQH..).

23 007 01 00



Gear unit type	Adapter type	Dimensions in mm													
		A5	B5	D	E5	F5	G2	S5	Z5	Z12[1]	Z12[2]	D1	L1	T1[1]	U1[1]
	AQ..140/1	140	110	16 18 22	165	5	300	M10	157	16	16	24	50	27.3	8
	AQ..140/2		130												
R..97	AQ..140/3								170	22	22	32	60	35.3	10
F..97	AQ..140/4											28		31.3	8
K..97	AQ..160/1	162	155		190							32		35.3	10
S..97	AQ..190/1	190	130	22 28	215			M12	215.5	24	24	32	60	35.3	10
	AQ..190/2		180												
	AQ..190/3								239.5	34	34	38	80	41.3	
	AQ..140/1	140	110	16 18 22	165		350	M10	151	16	16	24	50	27.3	8
	AQ..140/2		130												
R..107	AQ..140/3								164	22	22	32	60	35.3	10
F..107	AQ..140/4											28		31.3	8
K..107	AQ..160/1	162	155		190							32		35.3	10
	AQ..190/1	190	130	22 28	215			M12	209.5	24	24	32	60	35.3	10
	AQ..190/2		180												
	AQ..190/3								233.5	34	34	38	80	41.3	
R..137	AQ..190/1	190	130	22 28	215		400	M12	202.5	24	24	32	60	35.3	10
	AQ..190/2		180												
	AQ..190/3								226.5	34	34	38	80	41.3	
R..147	AQ..190/1		130	22 28			450		194.5	24	24	32	60	35.3	
F..127	AQ..190/2		180												
K..127	AQ..190/3								218.5	34	34	38	80	41.3	

1) For variants with keyway (AQA..).

2) For variants with clamping ring hub (AQH..).

6.11 Gear unit mounting

Use bolts of quality 8.8 to fasten gear units.

6.11.1 Exception

Use bolts of **quality 10.9** to fasten the customer flange to transmit the nominal torque for the following flange-mounted gear units (RF ..RZ..) and foot/flange-mounted gear units (R..F):

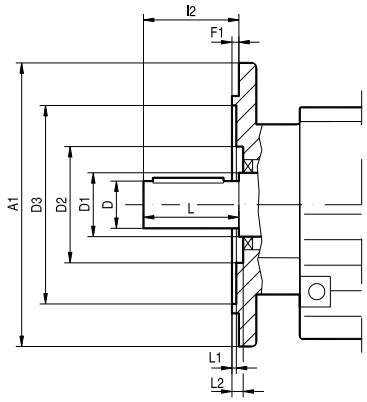
- RF37, R37F with flange Ø = 120 mm
- RF47, R47F with flange Ø = 140 mm
- RF57, R57F with flange Ø = 160 mm
- RZ37 – RZ87

6.12 Torque arms

6.12.1 Torque arms for KH167.., KH187..

As standard, torque arms are not available for gear unit sizes KH167.. and KH187... Consult SEW-EURODRIVE for design proposals if you require torque arms for these gear units.

6.13 Flange contours of RF.. and R..F gear units



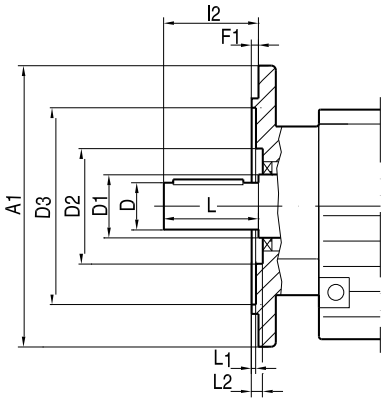
4310171403

Check dimensions L1 and L2 for selection and installation of output elements.

Type	Dimensions in mm											
	A1	D	D1	D2		D3	F1	I2	L	L1		L2
				RF	R..F					RF	R..F	
RF07, R07F	120	20	22	38	38	72	3	40	40	2	2	6
	140[1)]				-	85	3			2	-	6
	160[1)]				-	100	3.5			2.5	-	6.5
RF17, R17F	120	20	25	46	46	65	3	40	40	1	1	5
	140				-	78	3			1	-	5
	160[1)]				-	95	3.5			1	-	6
RF27, R27F	120	25	30	54	54	66	3	50	50	1	1	6
	140				-	79	3			3	-	7
	160				-	92	3.5			3	-	7
RF37, R37F	120	25	35	60	63	70	3	50	50	5	4	7
	160				-	96	3.5			1	-	7.5
	200[1)]				-	119	3.5			1	-	7.5
RF47, R47F	140	30	35	72	64	82	3	60	60	4	1	6
	160				-	96	3.5			0.5	-	6.5
	200				-	116	3.5			0.5	-	6.5
RF57, R57F	160	35	40	76	75	96	3.5	70	70	4	2.5	5
	200				-	116	3.5			0	-	5
	250[1)]				-	160	4			0.5	-	5.5
RF67, R67F	200	35	50	90	90	118	3.5	70	70	2	4	7
	250				-	160	4			1	-	7.5
RF77, R77F	250	40	52	112	100	160	4	80	80	0.5	2.5	7
	300[1)]				-	210	4			0.5	-	7
RF87, R87F	300	50	62	123	122	210	4	100	100	0	1.5	8
	350				-	226	5			1	-	9
RF97	350	60	72	136		236	5	120	120	0		9
	450					320						
RF107	350	70	82	157		232	5	140	140	0		11
	450			186		316						
RF137	450	90	108	180		316	5	170	170	0		10
	550					416						
RF147	450	110	125	210		316	5	210	210	0		10
	550					416						
RF167	550	120	145	290		416	5	210	210	1		10
	660					517	6			2		11

1) The flange contour protrudes from under the base surface.

6.14 Flange contours of FF.., KF.., SF.. and WF.. gear units

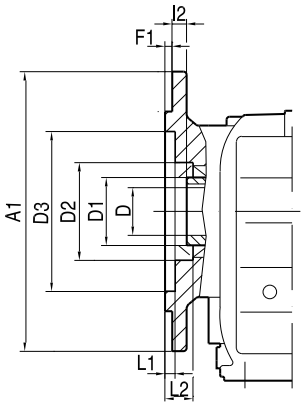


4310174475

Check dimensions L1 and L2 for selection and installation of output elements.

Type	Dimensions in mm									
	A1	D	D1	D2	D3	F1	l2	L	L1	L2
FF27	160	25	40	66	96	3.5	50	50	3	18.5
FF37	160	25	30	70	94	3.5	50	50	2	6
FF47	200	30	40	72	115	3.5	60	60	3.5	7.5
FF57	250	35	40	84	155	4	70	70	4	9
FF67	250	40	50	84	155	4	80	80	4	9
FF77	300	50	55	82	205	4	100	100	5	9
FF87	350	60	65	115	220	5	120	120	5	9
FF97	450	70	75	112	320	5	140	140	8	10
FF107	450	90	100	159	318	5	170	170	16	9
FF127	550	110	118	-	420	5	210	210	10	-
FF157	660	120	135	190	520	6	210	210	8	14
KF37	160	25	30	70	94	3.5	50	50	2	6
KF47	200	30	40	72	115	3.5	60	60	3.5	7.5
KF57	250	35	40	84	155	4	70	70	4	9
KF67	250	40	50	84	155	4	80	80	4	9
KF77	300	50	55	82	205	4	100	100	5	9
KF87	350	60	65	115	220	5	120	120	5	9
KF97	450	70	75	112	320	5	140	140	8	10
KF107	450	90	100	159	318	5	170	170	16	9
KF127	550	110	118	-	420	5	210	210	10	-
KF157	660	120	135	190	520	6	210	210	8	14
SF37	120	20	25	-	68	3	40	40	6	-
SF37	160	20	25	-	96	3.5	40	40	5.5	-
SF47	160	25	30	70	94	3.5	50	50	2	6
SF57	200	30	40	72	115	3.5	60	60	3.5	7.5
SF67	200	35	45	-	115	3.5	70	70	8.5	-
SF77	250	45	55	108	160	4	90	90	8	9
SF87	350	60	65	130	220	5	120	120	6	10
SF97	450	70	75	150	320	5	140	140	8.5	10
WF10	80	16	25	-	39	2.5	40	40	30	-
WF10	120	16	25	39	74	3	40	40	5	30
WF20	110	20	30	44	53	-4	40	40	27	35
WF20	120	20	30	-	45	2.5	40	40	37.5	-
WF30	120	20	30	48	63	2.5	40	40	18	27
WF30	160	20	30	48	63	2.5	40	40	33	42
WF37	120	20	30	-	70	2.5	40	40	-	10.5
WF37	160	20	30	-	70	2.5	40	40	-	25.5
WF47	160	30	35	-	92	3.5	10	60	6	-

6.15 Flange contours of FAF.., KAF.., SAF.. and WAF.. gear units



4310403851

Check dimensions L1 and L2 for selection and installation of output elements.

Type	Dimensions in mm								
	A1	D	D1	D2	D3	F1	I2	L1	L2
FAF27	160	40	25	66	96	3.5	20	3	18.5
FAF37	160	45	30	62	94	3.5	24	2	30
FAF47	200	50	35	70	115	3.5	25	3.5	31.5
FAF57	250	55	40	76	155	4	23.5	4	31
FAF67	250	55	40	76	155	4	23	4	31
FAF77	300	70	50	95	205	4	37	5	45
FAF87	350	85	60	120	220	5	30	5	39
FAF97	450	95	70	135	320	5	41.5	5.5	51
FAF107	450	118	90	224	320	5	41	16	52
FAF127	550	135	100	185	420	5	51	6	63
FAF157	660	155	120	200	520	6	60	10	74
KAF37	160	45	30	62	94	3.5	24	2	30
KAF47	200	50	35	70	115	3.5	25	3.5	8.5
KAF57	250	55	40	76	155	4	23.5	4	31
KAF67	250	55	40	76	155	4	23	4	31
KAF77	300	70	50	95	205	4	37	5	45
KAF87	350	85	60	120	220	5	30	5	39
KAF97	450	95	70	135	320	5	41.5	5.5	51
KAF107	450	118	90	224	320	5	41	16	52
KAF127	550	135	100	185	420	5	51	6	63
KAF157	660	155	120	200	520	6	60	10	74
SAF37	120	35	20	-	68	3	15	6	-
SAF37	160	35	20	-	96	3.5	15	5.5	-
SAF47	160	45	30 / 25	62	94	3.5	24	2	30
SAF57	200	50	35 / 30	70	115	3.5	25	3.5	31.5
SAF67	200	65	45 / 40	91	115	3.5	42.5	4	48.5
SAF77	250	80	60 / 50	112	164	4	45.5	5	53.5
SAF87	350	95	70 / 60	131	220	5	52.5	6	62.5
SAF97	450	120	90 / 70	160	320	5	60	6.5	69
WAF10	80	25	16	-	39	2.5	23	30	-
WAF10	120	25	16	39	74	3	23	5	30
WAF20	110	30	18 / 20	44	53	-4	30	27	35
WAF20	120	30	18 / 20	-	45	2.5	30	37.5	-
WAF30	120	30	20	48	63	2.5	19.5	18	27
WAF30	160	30	20	48	63	2.5	34.5	33	42
WAF37	120	35	20 / 25	54	70	2.5	19.5	10.5	27
WAF37	160	35	20 / 25	54	70	2.5	34.5	25.5	42
WAF47	160	45	25 / 30	72	92	3.5	10	6	45

6.16 Fixed cover

Explosion-proof parallel-shaft, helical-bevel, helical-worm, and SPIROPLAN® gear units with hollow shaft and shrink disk are equipped with a fixed cover with gasket as standard.

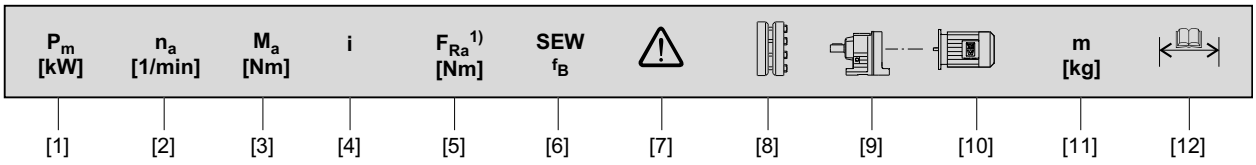


7 Important Notes on Selection Tables and Dimension Drawings

7.1 Selection tables for explosion-proof gearmotors

7.1.1 Structure of the selection tables

The following figure shows the structure of the selection tables for explosion-proof gearmotors:



1 Nominal power of driving motor

2 Output speed

3 Output torque

4 Gear unit reduction ratio

5 Permitted overhung load on output end

6 Service factor

7 The specified mounting position is not possible

8 The entry "X" indicates that the specified gearmotor combination is not available as shrink disk variant (type designation FH.., KH.., SH.., FT.., KT.., ST..).

9 Gear unit type

10 Motor type

11 Weight

12 Dimension sheet page number

7.1.2 Key

* Finite gear unit reduction ratio

1) Overhung load for foot-mounted gear units with solid shaft; overhung loads for other gear unit types upon request.

INFORMATION

Only applies to SPIROPLAN® (W) gearmotors:

- If a lubricant is used for the food industry (food grade), SEW $f_B \geq 1.2$ required.

7.2 Dimension sheet information

7.2.1 Scope of delivery



= Standard parts supplied by SEW-EURODRIVE.



= Standard parts not supplied by SEW-EURODRIVE.

7.2.2 Tolerances

Shaft heights

The following tolerances apply to the indicated dimensions:

h	≤ 250 mm	→ -0.5 mm
h	> 250 mm	→ -1 mm

Foot-mounted gear units: Check the mounted motor because it may project below the mounting surface.

Shaft ends

Diameter tolerance:

Ø	≤ 50 mm	→ ISO k6
Ø	> 50 mm	→ ISO m6

Center bores according to DIN 332, shape DR:

Ø	= 7 – 10 mm	→ M3	Ø	> 30 – 38 mm	→ M12
Ø	> 10 – 13 mm	→ M4	Ø	> 38 – 50 mm	→ M16
Ø	> 13 – 16 mm	→ M5	Ø	> 50 – .85 mm	→ M20
Ø	> 16 – 21 mm	→ M6	Ø	> 85 – 130 mm	→ M24
Ø	> 21 – 24 mm	→ M8	Ø	> 130 mm	→ M30
Ø	> 24 – 30 mm	→ M10			

Keys: according to DIN 6885 (domed type)

Hollow shafts

Diameter tolerance:

Ø → ISO H7 measured with plug gauge

Keys: according to DIN 6885 (domed type)

Exception: Key for WA37 with shaft Ø 25 mm according to DIN 6885-3 (low form)

Multiple-spline shafts

Dm	= Measuring roller diameter
Me	= Check size

Flanges

Centering shoulder tolerance:

Ø	≤ 230 mm (flange sizes A120 – A300)	→ ISO j6
Ø	> 230 mm (flange sizes A350 – A660)	→ ISO h6

Up to 3 different flange dimensions are available for each size of helical gear units, SPIROPLAN® gear units, AC (brake) motors and explosion-proof AC (brake) motors. The respective dimension drawings will show the flanges approved for each size.

7.2.3 Eyebolts, lifting eyes

R07 - R27 helical gear units and SPIROPLAN® gearmotors W..10 – W..30 are delivered without special transportation fixtures. All other gear units and motors are equipped with cast-on suspension eye lugs, screw-on suspension eye lugs or screw-on lifting eyebolts.

Gear unit/motor type	screw-on,		cast-on eyebolts
	Eyebolts	Lifting eyes	
RX57 – RX67	–	•	–
RX77 – RX107	•	–	–
R..37 – R..57	–	•	–
R..67 – R..167	•	–	–
F..27 – F..157	–	–	•
K..37 – K..157	–	–	•
K..167 – K..187	•	–	–
W..37, W..47	–	•	–
S..37 – S..47	–	•	–
S..57 – S..97	–	–	•
≥ DR.112	•	–	–

7.2.4 Breather valves

The gear unit dimension drawings always show the screw plugs. The corresponding screw plug is replaced by an activated breather valve at the factory depending on the ordered mounting position M1 – M6. The result may be slightly altered contour dimensions.

7.2.5 Shrink disk connection

Hollow shaft gear unit with shrink disk connection: If required, please request a detailed data sheet on shrink disks, data sheet no. 33 753 nn 95.

7.2.6 Splined hollow shaft

FV.. hollow shaft gear unit sizes 27 to 107, and KV.. sizes 37 to 107 are supplied with splining according to standard 5480.

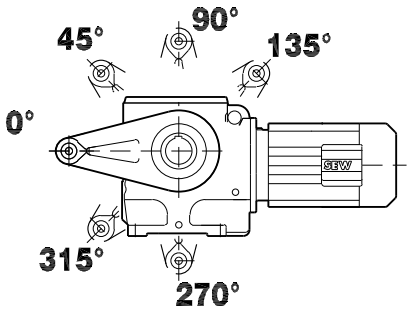
7.2.7 Rubber buffer for FA/FH/FV/FT

Preload rubber buffer by the indicated value mL. The characteristic curve of spring for the rubber buffers is available at SEW-EURODRIVE on request.

7.2.8 Torque arm position

Helical-worm gear units and SPIROPLAN® gear units

The following illustration shows the possible torque arm positions for helical-worm gear units and SPIROPLAN® gear units (135° position not possible with SPIROPLAN® gear units) as well as the respective angles:



4982718475

For information about torque arms of helical-worm gear units, refer to the dimension sheets on page 583ff. For information about torque arms of SPIROPLAN® gear units, refer to the dimension sheets on page 618ff.

For information about torque arms of helical-bevel gear units, refer to page 528ff.

7.3 Gearmotor dimensions

7.3.1 Motor options

The motor dimensions may change when installing motor options. Refer to the dimension drawings of the motor options.

7.3.2 Special designs

The terminal box dimensions in special designs might vary from the standard.

7.3.3 EN 50347

European standard EN 50347 became effective in August 2001. This standard adopts the dimension designations for three-phase AC motors for sizes 56 to 315M and flange sizes 65 to 740 from the IEC 72-1 standard.

The new dimension designations given in EN 50347 / IEC 72-1 are used for the dimensions in question in the dimension tables of the dimensions sheets.

8 Category /2GD T3

8.1 Selection tables for helical gearmotors /2GD T3

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.12	**0.08**	11300	18210	65700	1.15	-							
	0.09	9920	15923	67900	1.30	-							
	0.10	8770	14075	69400	1.50	-							
	0.11	7640	12344	70700	1.70	-							
	0.12	6730	11143	71600	1.95	-	**R**	**147R77**	**EDR**	**63S4**	420	472
	0.14	6030	9743	72200	2.2	-	**RF**	**147R77**	**EDR**	**63S4**	430	472
	0.16	4830	8443	73100	2.7	-	**RM**	**147R77**	**EDR**	**63S4**	600	472
	0.19	4180	7307	73400	3.1	-						
	0.21	3690	6447	73700	3.5	-						
	0.25	3180	5568	73900	4.1	-						
	0.12	7250	11712	54900	1.10	-						
	0.13	6390	10573	56400	1.25	-						
	0.16	5020	8784	58400	1.60	-	**R**	**137R77**	**EDR**	**63S4**	290	472
	0.18	4090	7479	59400	1.95	-	**RF**	**137R77**	**EDR**	**63S4**	310	472
	0.21	4060	6559	59400	1.95	-	**RM**	**137R77**	**EDR**	**63S4**	425	472
	0.24	3190	5834	60200	2.5	-						
	0.27	3160	5116	60200	2.5	-						
	0.20	3690	6743	32400	1.15	-						
	0.23	3660	5914	32500	1.15	-						
	0.27	2820	5168	35500	1.50	-	**R**	**107R77**	**EDR**	**63S4**	200	472
	0.31	2530	4435	36100	1.70	-	**RF**	**107R77**	**EDR**	**63S4**	210	472
	0.35	2260	3896	36500	1.90	-	**RM**	**107R77**	**EDR**	**63S4**	295	472
	0.45	1880	3039	36900	2.3	-						
	0.35	2470	3918	36200	1.75	-						
	0.41	2100	3343	36700	2.0	-						
	0.45	1910	3034	36900	2.2	-	**R**	**107R77**	**EDR**	**63S4**	195	472
	0.52	1670	2653	37100	2.6	-	**RF**	**107R77**	**EDR**	**63S4**	200	472
	0.61	1430	2280	37300	3.0	-	**RM**	**107R77**	**EDR**	**63S4**	290	472
	0.67	1290	2067	37400	3.3	-						
	0.34	2560	4004	23700	1.15	-	**R**	**97R57**	**EDR**	**63S4**	130	472
	0.40	2270	3481	25200	1.30	-	**RF**	**97R57**	**EDR**	**63S4**	145	472
							RM	**97R57**	**EDR**	**63S4**	195	472
	0.32	2980	4309	20400	1.00	-						
	0.37	2560	3702	23700	1.15	-						
	0.46	2080	3019	26100	1.45	-	**R**	**97R57**	**EDR**	**63S4**	125	472
	0.52	1800	2668	27100	1.65	-	**RF**	**97R57**	**EDR**	**63S4**	140	472
	0.61	1480	2245	27700	2.0	-	**RM**	**97R57**	**EDR**	**63S4**	195	472
	0.68	1300	2016	27900	2.3	-						
	0.80	1190	1733	28000	2.5	-						
	0.45	2120	3065	25900	1.40	-						
	0.51	1880	2722	26800	1.60	-						
	0.60	1590	2311	27500	1.90	-						
	0.66	1430	2078	27700	2.1	-	**R**	**97R57**	**EDR**	**63S4**	130	472
	0.76	1230	1823	28000	2.4	-	**RF**	**97R57**	**EDR**	**63S4**	145	472
	0.87	1070	1583	28200	2.8	-	**RM**	**97R57**	**EDR**	**63S4**	195	472
	0.99	900	1396	28300	3.3	-						
	1.1	770	1228	28400	3.9	-						
	0.70	1300	1961	18500	1.20	-	**R**	**87R57**	**EDR**	**63S4**	86	472
							RF	**87R57**	**EDR**	**63S4**	93	472
							RM	**87R57**	**EDR**	**63S4**	125	472
	0.65	1430	2129	17700	1.10	-	**R**	**87R57**	**EDR**	**63S4**	85	472
	0.72	1270	1930	18600	1.20	-	**RF**	**87R57**	**EDR**	**63S4**	92	472
	0.80	1120	1733	19300	1.40	-	**RM**	**87R57**	**EDR**	**63S4**	120	472

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.12	**0.79**	1140	1737	19200	1.35	-								
	0.91	1000	1524	19800	1.55	-								
	1.1	810	1303	20000	1.90	-								
	1.2	710	1143	20000	2.2	-	**R**	**87R57**	**EDR**	**63S4**	85	472
	1.6	580	885	20000	2.6	-	**RF**	**87R57**	**EDR**	**63S4**	92	472
	1.8	510	776	20000	3.0	-	**RM**	**87R57**	**EDR**	**63S4**	120	472
	2.0	450	685	20000	3.4	-						
	2.3	360	599	20000	4.3	-						
	1.2	795	1124	10100	1.05	-	**R**	**77R37**	**EDR**	**63S4**	45	472
	1.3	740	1047	10600	1.10	-	**RF**	**77R37**	**EDR**	**63S4**	51	472
	1.5	635	915	11300	1.30	-	**RM**	**77R37**	**EDR**	**63S4**	76	472
	1.1	820	1218	9910	1.00	-						
	1.3	740	1084	10600	1.10	-						
	1.5	660	940	11200	1.25	-	**R**	**77R37**	**EDR**	**63S4**	46	472
	1.7	520	821	12000	1.55	-	**RF**	**77R37**	**EDR**	**63S4**	52	472
	1.9	475	731	12200	1.70	-	**RM**	**77R37**	**EDR**	**63S4**	77	472
	2.1	455	646	12300	1.80	-						
	2.6	375	520	12600	2.2	-						
	3.1	320	451	12700	2.5	-	**R**	**77R37**	**EDR**	**63S4**	45	472
	3.3	300	422	12800	2.7	-	**RF**	**77R37**	**EDR**	**63S4**	51	472
	3.8	255	365	12900	3.2	-	**RM**	**77R37**	**EDR**	**63S4**	76	472
	1.9	505	730	8530	1.20	-						
	2.1	440	644	9060	1.35	-	**R**	**67R37**	**EDR**	**63S4**	40	472
	2.4	385	571	9430	1.55	-	**RF**	**67R37**	**EDR**	**63S4**	43	472
	2.8	320	486	9790	1.85	-	**RM**	**67R37**	**EDR**	**63S4**	59	472
	1.6	590	836	7670	1.00	-						
	1.8	490	750	8630	1.20	-						
	2.1	440	646	9050	1.35	-	**R**	**67R37**	**EDR**	**63S4**	41	472
	2.4	400	574	9330	1.50	-	**RF**	**67R37**	**EDR**	**63S4**	44	472
	2.8	345	495	9660	1.75	-	**RM**	**67R37**	**EDR**	**63S4**	60	472
	3.2	285	438	9940	2.1	-						
	2.3	410	604	7260	1.10	-						
	2.6	370	537	7400	1.20	-	**R**	**57R37**	**EDR**	**63S4**	34	472
	2.9	325	471	7550	1.35	-	**RF**	**57R37**	**EDR**	**63S4**	38	472
	3.9	240	357	7760	1.85	-	**RM**	**57R37**	**EDR**	**63S4**	50	472
	4.3	215	319	7820	2.1	-						
	3.8	255	359	7730	1.75	-						
	4.3	230	324	7790	1.95	-						
	4.8	200	290	7840	2.2	-	**R**	**57R37**	**EDR**	**63S4**	33	472
	5.3	185	262	7880	2.4	-	**RF**	**57R37**	**EDR**	**63S4**	37	472
	5.6	170	246	7900	2.6	-	**RM**	**57R37**	**EDR**	**63S4**	49	472
	6.3	150	220	7930	3.0	-						
	3.2	285	436	5480	1.05	-						
	3.4	265	408	5590	1.10	-	**R**	**47R37**	**EDR**	**63S4**	28	472
	4.0	215	344	5780	1.35	-	**RF**	**47R37**	**EDR**	**63S4**	28	472
	3.7	265	372	5580	1.10	-						
	4.0	245	348	5670	1.20	-						
	4.6	210	301	5810	1.40	-	**R**	**47R37**	**EDR**	**63S4**	28	472
	5.4	177	255	5920	1.70	-	**RF**	**47R37**	**EDR**	**63S4**	28	472
	6.0	156	228	5980	1.95	-						
	7.1	130	195	6040	2.3	-						
	5.3	184	259	5130	1.10	-						
	6.0	163	228	5360	1.25	-	**R**	**37R17**	**EDR**	**63S4**	17	472
	6.9	140	199	5550	1.40	-	**RF**	**37R17**	**EDR**	**63S4**	19	472
	8.0	122	172	5680	1.65	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.12	**5.2**	192	265	5040	1.05	-							
	6.1	156	226	5410	1.30	-	**R**	**37R17**	**EDR**	**63S4**		17	472
	6.8	144	202	5520	1.40	-	**RF**	**37R17**	**EDR**	**63S4**		18	472
	7.7	125	179	5660	1.60	-							
	7.8	121	177	4270	1.05	-	**R**	**27R17**	**EDR**	**63S4**		11	472
	8.3	116	166	4290	1.10	-	**RF**	**27R17**	**EDR**	**63S4**		11	472
	7.7	125	179	4260	1.05	-	**R**	**27R17**	**EDR**	**63S4**		11	472
	8.8	106	156	4330	1.25	-	**RF**	**27R17**	**EDR**	**63S4**		11	472
	7.1	162	195.24*	13000	5.1	-	**R**	**77**	**EDR**	**63S4**		37	456
	8.3	138	166.59	13000	5.9	-	**RF**	**77**	**EDR**	**63S4**		43	457
	9.5	121	145.67	13000	6.8	-	**RM**	**77**	**EDR**	**63S4**		68	457
	6.9	166	199.81	10300	3.6	-							
	7.5	153	184.07	10400	3.9	-							
	8.7	131	158.14	10400	4.6	-	**R**	**67**	**EDR**	**63S4**		30	453
	10	114	137.67	10500	5.2	-	**RF**	**67**	**EDR**	**63S4**		33	454
	11	107	128.97	10500	5.6	-	**RM**	**67**	**EDR**	**63S4**		49	454
	12	95	113.94	10500	6.3	-							
	7.4	155	186.89	7920	2.9	-							
	8.0	143	172.17	7940	3.2	-							
	9.3	123	147.92	7960	3.7	-	**R**	**57**	**EDR**	**63S4**		23	450
	11	107	128.77	7980	4.2	-	**RF**	**57**	**EDR**	**63S4**		27	451
	11	100	120.63	7980	4.5	-	**RM**	**57**	**EDR**	**63S4**		39	451
	13	88	106.58	7990	5.1	-							
	14	82	98.99	8000	5.5	-							
	7.8	147	176.88	6000	2.0	-							
	8.5	135	162.94	6030	2.2	-							
	9.9	116	139.99	6070	2.6	-							
	11	101	121.87	6100	3.0	-	**R**	**47**	**EDR**	**63S4**		18	447
	12	95	114.17	6100	3.2	-	**RF**	**47**	**EDR**	**63S4**		18	448
	14	84	100.86	6120	3.6	-							
	15	78	93.68	6130	3.9	-							
	10	112	134.82	5750	1.80	-							
	11	103	123.66	5800	1.95	-							
	13	87	105.28	5880	2.3	-	**R**	**37**	**EDR**	**63S4**		14	444
	15	75	90.77	5930	2.6	-	**RF**	**37**	**EDR**	**63S4**		16	445
	16	70	84.61	5950	2.8	-							
	19	61	73.96	5980	3.3	-							
	10	112	135.09	4310	1.15	-							
	11	103	123.91	4340	1.25	-							
	13	88	105.49	4390	1.50	-							
	15	76	90.96	4420	1.70	-							
	16	70	84.78	4440	1.85	-							
	19	62	74.11	4460	2.1	-	**R**	**27**	**EDR**	**63S4**		8.3	441
	20	58	69.47	4460	2.2	-	**RF**	**27**	**EDR**	**63S4**		8.2	442
	23	51	61.30	4400	2.6	-							
	25	46	55.87	4280	2.8	-							
	29	40	48.17	4090	3.2	-							
	31	37	44.90	4000	3.5	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.12	**17**	68	81.64	2500	1.25	-							
	20	58	70.39	2500	1.45	-							
	21	54	65.61	2500	1.55	-							
	24	48	57.35	2500	1.80	-							
	26	45	53.76	2500	1.90	-							
	29	39	47.44	2500	2.2	-	**R**	**17**		**EDR**	**63S4**	7.6	438
	31	37	44.18	2500	2.3	-	**RF**	**17**		**EDR**	**63S4**	7.5	439
	36	32	38.61	2430	2.6	-							
	38	30	36.20	2390	2.8	-							
	43	26	31.94	2310	3.1	-							
	49	24	28.32	2230	3.4	-							
	57	20	24.07	2130	3.8	-							
	23	50	60.32	1340	1.00	-							
	27	43	51.52	1300	1.15	-							
	29	40	47.78	1290	1.25	-							
	31	37	44.16	1270	1.35	-							
	33	34	41.31	1250	1.45	-							
	34	34	40.34	1250	1.50	-	**R**	**07**		**EDR**	**63S4**	6.4	435
	36	32	38.51	1240	1.55	-	**RF**	**07**		**EDR**	**63S4**	6.4	436
	41	28	34.05	1200	1.75	-							
	47	24	29.08	1160	2.1	-							
	51	22	26.97	1140	2.2	-							
	59	19	23.32	1100	2.6	-							
	63	18	21.73	1080	2.8	-							
	75	15	18.31	1040	3.3	-							
	82	14	16.73	1010	3.6	-							
	98	12	14.12	970	4.1	-							
	114	10	12.06	930	4.6	-							
	123	9.3	11.18	910	4.8	-							
	143	8.0	9.67	870	5.4	-							
	153	7.5	9.01	850	5.6	-							
	176	6.5	7.85	820	6.3	-	**R**	**07**		**EDR**	**63S4**	6.3	435
	185	6.2	7.48	810	6.3	-	**RF**	**07**		**EDR**	**63S4**	6.3	436
	202	5.7	6.83	790	6.7	-							
	239	4.8	5.76	750	7.5	-							
	280	4.1	4.92	715	8.3	-							
	302	3.8	4.57	700	8.7	-							
	350	3.3	3.95	665	9.4	-							
	375	3.1	3.68	655	9.7	-							
	430	2.7	3.21	625	10	-							
	227	5.0	6.07	4260	8.6	-							
	267	4.3	5.18	4050	17	-	**RX**	**67**		**EDR**	**63S4**	16	425
	305	3.8	4.53	3870	22	-	**RXF**	**67**		**EDR**	**63S4**	20	426
	321	3.6	4.30*	3810	22	-							
	251	4.6	5.50*	3360	8.5	-							
	272	4.2	5.07	3270	8.6	-							
	317	3.6	4.35	3120	19	-							
	364	3.1	3.79	2980	22	-							
	389	2.9	3.55*	2910	24	-							
	440	2.6	3.14	2800	25	-	**RX**	**57**		**EDR**	**63S4**	14	423
	474	2.4	2.91	2730	28	-	**RXF**	**57**		**EDR**	**63S4**	16	424
	523	2.2	2.64*	2640	31	-							
	582	2.0	2.37	2550	34	-							
	676	1.7	2.04	2430	41	-							
	719	1.6	1.92*	2380	43	-							
	835	1.4	1.65	2260	49	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.18	**0.11**	12900	12344	62800	1.00	-							
	0.12	11400	11143	65500	1.15	-							
	0.14	10100	9743	67500	1.30	-							
	0.16	8430	8443	69800	1.55	-							
	0.18	7300	7307	71000	1.80	-	**R**	**147R77**	**EDR**	**63M4**	420	472
	0.21	6440	6447	71800	2.0	-	**RF**	**147R77**	**EDR**	**63M4**	430	472
	0.24	5560	5568	72500	2.3	-	**RM**	**147R77**	**EDR**	**63M4**	600	472
	0.27	5070	4926	72900	2.6	-						
	0.31	4360	4325	73300	3.0	-						
	0.36	3870	3754	73600	3.4	-						
	0.40	3330	3302	73900	3.9	-						
	0.18	7280	7479	54800	1.10	-							
	0.20	6850	6559	55600	1.15	-							
	0.23	5680	5834	57500	1.40	-	**R**	**137R77**	**EDR**	**63M4**	290	472
	0.26	5350	5116	58000	1.50	-	**RF**	**137R77**	**EDR**	**63M4**	310	472
	0.30	4460	4464	59000	1.80	-	**RM**	**137R77**	**EDR**	**63M4**	425	472
	0.34	3920	3928	59600	2.0	-						
	0.28	4990	4709	58400	1.60	-							
	0.33	4260	4018	59200	1.90	-	**R**	**137R77**	**EDR**	**63M4**	280	472
	0.38	3730	3514	59800	2.1	-	**RF**	**137R77**	**EDR**	**63M4**	300	472
	0.40	3540	3338	59900	2.3	-	**RM**	**137R77**	**EDR**	**63M4**	415	472
	0.46	3100	2929	60300	2.6	-						
	0.34	3930	3896	31300	1.10	-	**R**	**107R77**	**EDR**	**63M4**	200	472
	0.44	3170	3039	34400	1.35	-	**RF**	**107R77**	**EDR**	**63M4**	210	472
							RM	**107R77**	**EDR**	**63M4**	295	472
	0.34	4150	3918	30200	1.05	-							
	0.40	3540	3343	33000	1.20	-							
	0.44	3220	3034	34200	1.35	-	**R**	**107R77**	**EDR**	**63M4**	195	472
	0.50	2810	2653	35500	1.55	-	**RF**	**107R77**	**EDR**	**63M4**	200	472
	0.59	2420	2280	36300	1.80	-	**RM**	**107R77**	**EDR**	**63M4**	290	472
	0.65	2180	2067	36600	1.95	-						
	0.67	2070	1987	36700	2.1	-							
	0.73	1840	1827	36900	2.3	-	**R**	**107R77**	**EDR**	**63M4**	200	472
	0.83	1570	1599	37200	2.7	-	**RF**	**107R77**	**EDR**	**63M4**	205	472
	0.95	1410	1400	37300	3.0	-	**RM**	**107R77**	**EDR**	**63M4**	295	472
	1.1	1200	1226	37400	3.6	-						
	0.50	2950	2668	21200	1.00	-							
	0.59	2450	2245	24300	1.20	-							
	0.66	2170	2016	25700	1.40	-							
	0.77	1940	1733	26600	1.55	-							
	0.82	1810	1623	27100	1.65	-	**R**	**97R57**	**EDR**	**63M4**	125	472
	0.93	1590	1434	27500	1.90	-	**RF**	**97R57**	**EDR**	**63M4**	140	472
	1.1	1310	1207	27900	2.3	-	**RM**	**97R57**	**EDR**	**63M4**	195	472
	1.2	1170	1084	28100	2.6	-						
	1.4	990	934	28200	3.0	-						
	1.5	920	878	28300	3.2	-						
	1.8	780	755	28400	3.8	-						
	0.58	2580	2311	23600	1.15	-	**R**	**97R57**	**EDR**	**63M4**	130	472
	0.64	2320	2078	25000	1.30	-	**RF**	**97R57**	**EDR**	**63M4**	145	472
							RM	**97R57**	**EDR**	**63M4**	195	472
	1.1	1360	1232	18100	1.15	-							
	1.2	1260	1145	18700	1.25	-	**R**	**87R57**	**EDR**	**63M4**	85	472
	1.3	1130	1037	19300	1.35	-	**RF**	**87R57**	**EDR**	**63M4**	92	472
	1.4	1000	931	19800	1.55	-	**RM**	**87R57**	**EDR**	**63M4**	120	472
	1.7	850	802	20000	1.80	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.18	**1.0**	1370	1303	18100	1.15	-							
	1.2	1200	1143	18900	1.30	-	**R**	**87R57**	**EDR**	**63M4**	85	472
	1.5	960	885	20000	1.60	-	**RF**	**87R57**	**EDR**	**63M4**	92	472
	1.7	840	776	20000	1.85	-	**RM**	**87R57**	**EDR**	**63M4**	120	472
	2.0	740	671	10600	1.10	-	**R**	**77R37**	**EDR**	**63M4**	45	472
	2.3	620	571	11400	1.30	-	**RF**	**77R37**	**EDR**	**63M4**	51	472
							RM	**77R37**	**EDR**	**63M4**	76	472
	1.8	790	731	10200	1.05	-						
	2.1	735	646	10600	1.10	-						
	2.4	635	560	11300	1.30	-						
	2.7	540	488	11900	1.50	-	**R**	**77R37**	**EDR**	**63M4**	46	472
	3.1	480	436	12200	1.70	-	**RF**	**77R37**	**EDR**	**63M4**	52	472
	3.6	415	373	12400	1.95	-	**RM**	**77R37**	**EDR**	**63M4**	77	472
	4.1	360	327	12600	2.2	-						
	4.6	325	289	12700	2.5	-						
	2.8	525	486	8310	1.15	-	**R**	**67R37**	**EDR**	**63M4**	40	472
							RF	**67R37**	**EDR**	**63M4**	43	472
							RM	**67R37**	**EDR**	**63M4**	59	472
	2.7	555	495	8030	1.10	-						
	3.0	475	438	8790	1.25	-						
	3.4	420	388	9200	1.45	-	**R**	**67R37**	**EDR**	**63M4**	41	472
	3.9	385	344	9410	1.50	-	**RF**	**67R37**	**EDR**	**63M4**	44	472
	4.6	310	294	9820	1.90	-	**RM**	**67R37**	**EDR**	**63M4**	60	472
	5.1	285	261	9940	2.0	-						
	3.3	445	410	7120	1.00	-	**R**	**57R37**	**EDR**	**63M4**	33	472
							RF	**57R37**	**EDR**	**63M4**	37	472
							RM	**57R37**	**EDR**	**63M4**	49	472
	3.7	395	357	7310	1.15	-						
	4.2	350	319	7470	1.30	-	**R**	**57R37**	**EDR**	**63M4**	34	472
	4.9	295	273	7640	1.50	-	**RF**	**57R37**	**EDR**	**63M4**	38	472
	5.6	255	241	7740	1.75	-	**RM**	**57R37**	**EDR**	**63M4**	50	472
	6.2	225	215	7800	1.95	-						
	3.7	415	359	7250	1.10	-						
	4.1	370	324	7400	1.20	-						
	4.6	330	290	7540	1.35	-						
	5.1	295	262	7630	1.50	-	**R**	**57R37**	**EDR**	**63M4**	33	472
	5.4	275	246	7690	1.60	-	**RF**	**57R37**	**EDR**	**63M4**	37	472
	6.1	245	220	7760	1.85	-	**RM**	**57R37**	**EDR**	**63M4**	49	472
	7.1	205	188	7840	2.2	-						
	8.4	174	159	7890	2.6	-						
	5.2	285	255	5480	1.05	-						
	5.9	255	228	5640	1.20	-	**R**	**47R37**	**EDR**	**63M4**	28	472
	6.9	215	195	5800	1.40	-	**RF**	**47R37**	**EDR**	**63M4**	28	472
	7.8	196	172	4990	1.00	-	**R**	**37R17**	**EDR**	**63M4**	17	472
	8.9	170	150	5280	1.15	-	**RF**	**37R17**	**EDR**	**63M4**	19	472
	8.6	174	156	5250	1.15	-	**R**	**37R17**	**EDR**	**63M4**	17	472
							RF	**37R17**	**EDR**	**63M4**	18	472
	12	123	110	4260	1.05	-	**R**	**27R17**	**EDR**	**63M4**	11	472
	14	103	94	4340	1.25	-	**RF**	**27R17**	**EDR**	**63M4**	11	472
	13	119	104	4280	1.10	-	**R**	**27R17**	**EDR**	**63M4**	11	472
	15	103	90	4340	1.25	-	**RF**	**27R17**	**EDR**	**63M4**	11	472
	6.8	250	195.24*	12900	3.3	-						
	8.0	210	166.59	13000	3.8	-	**R**	**77**	**EDR**	**63M4**	37	456
	9.2	188	145.67	13000	4.4	-	**RF**	**77**	**EDR**	**63M4**	43	457
	9.6	178	138.39	13000	4.6	-	**RM**	**77**	**EDR**	**63M4**	68	457
	11	156	121.42	13000	5.2	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.18	**6.7**	255	199.81	10100	2.3	-							
	7.2	235	184.07	10100	2.5	-							
	8.4	200	158.14	10200	3.0	-							
	9.7	177	137.67	10300	3.4	-							
	10	166	128.97	10300	3.6	-	**R**	**67**	**EDR**	**63M4**		30	453
	12	147	113.94	10400	4.1	-	**RF**	**67**	**EDR**	**63M4**		33	454
	13	136	105.83	10400	4.4	-	**RM**	**67**	**EDR**	**63M4**		49	454
	14	124	95.91	10400	4.8	-							
	16	111	86.11	10500	5.1	-							
	18	96	74.17	10500	5.6	-							
	19	90	69.75	10500	5.8	-							
	7.1	240	186.89	7770	1.85	-							
	7.8	220	172.17	7810	2.0	-							
	9.0	190	147.92	7870	2.4	-							
	10	166	128.77	7910	2.7	-	**R**	**57**	**EDR**	**63M4**		23	450
	11	155	120.63	7920	2.9	-	**RF**	**57**	**EDR**	**63M4**		27	451
	13	137	106.58	7940	3.3	-	**RM**	**57**	**EDR**	**63M4**		39	451
	13	128	98.99	7960	3.5	-							
	15	116	89.71	7970	3.9	-							
	7.6	225	176.88	5750	1.30	-							
	8.2	205	162.94	5820	1.45	-							
	9.5	180	139.99	5920	1.65	-							
	11	157	121.87	5980	1.90	-							
	12	147	114.17	6000	2.0	-	**R**	**47**	**EDR**	**63M4**		18	447
	13	130	100.86	6040	2.3	-	**RF**	**47**	**EDR**	**63M4**		18	448
	14	121	93.68	6060	2.5	-							
	16	109	84.90	6080	2.7	-							
	18	98	76.23	6100	3.0	-							
	9.9	174	134.82	5250	1.15	-							
	11	159	123.66	5390	1.25	-							
	13	136	105.28	5590	1.45	-							
	15	117	90.77	5720	1.70	-							
	16	109	84.61	5770	1.85	-	**R**	**37**	**EDR**	**63M4**		14	444
	18	95	73.96	5840	2.1	-	**RF**	**37**	**EDR**	**63M4**		16	445
	19	89	69.33	5870	2.2	-							
	22	79	61.18	5920	2.5	-							
	24	72	55.76	5950	2.8	-							
	28	62	48.08	5940	3.2	-							
	15	117	90.96	4290	1.10	-							
	16	109	84.78	4320	1.20	-							
	18	95	74.11	4370	1.35	-							
	19	89	69.47	4390	1.45	-							
	22	79	61.30	4310	1.65	-							
	24	72	55.87	4200	1.80	-							
	28	62	48.17	4030	2.1	-	**R**	**27**	**EDR**	**63M4**		8.3	441
	30	58	44.90	3950	2.2	-	**RF**	**27**	**EDR**	**63M4**		8.2	442
	34	50	39.25	3800	2.6	-							
	36	47	36.79	3730	2.7	-							
	41	42	32.47	3590	3.0	-							
	46	37	28.78	3470	3.3	-							
	55	32	24.47	3300	3.8	-							
	47	36	28.37	3450	3.6	-							
	51	34	26.09	3370	3.8	-							
	60	29	22.32	3210	4.2	-							
	69	25	19.35	3080	4.7	-	**R**	**27**	**EDR**	**63M4**		8.0	441
	74	23	18.08	3010	4.9	-	**RF**	**27**	**EDR**	**63M4**		8.0	442
	85	20	15.63	2880	5.4	-							
	101	17	13.28*	2740	6.1	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.18	**20**	84	65.61	1800	1.00	-							
	23	74	57.35	2390	1.15	-							
	25	69	53.76	2500	1.25	-							
	28	61	47.44	2440	1.40	-							
	30	57	44.18	2400	1.50	-	**R**	**17**	**EDR**	**63M4**	7.6	438
	35	50	38.61	2330	1.70	-	**RF**	**17**	**EDR**	**63M4**	7.5	439
	37	47	36.20	2300	1.80	-						
	42	41	31.94	2230	2.0	-						
	47	36	28.32	2160	2.2	-						
	55	31	24.07	2080	2.5	-						
	53	32	25.23	2100	2.5	-						
	58	30	23.15	2050	2.7	-	**R**	**17**	**EDR**	**63M4**	7.3	438
	68	25	19.71	1970	3.0	-	**RF**	**17**	**EDR**	**63M4**	7.2	439
	79	22	16.99	1890	3.3	-						
	35	50	38.51	1120	1.00	-						
	39	44	34.05	1100	1.15	-						
	46	37	29.08	1080	1.35	-	**R**	**07**	**EDR**	**63M4**	6.4	435
	50	35	26.97	1060	1.45	-	**RF**	**07**	**EDR**	**63M4**	6.4	436
	57	30	23.32	1040	1.65	-						
	61	28	21.73	1020	1.80	-						
	73	24	18.31	990	2.1	-						
	80	22	16.73	970	2.3	-						
	95	18	14.12	930	2.6	-						
	111	16	12.06	900	3.0	-						
	119	14	11.18	880	3.1	-						
	138	12	9.67	850	3.5	-						
	148	12	9.01	830	3.6	-						
	170	10	7.85	800	4.1	-	**R**	**07**	**EDR**	**63M4**	6.3	435
	179	9.6	7.48	795	4.1	-	**RF**	**07**	**EDR**	**63M4**	6.3	436
	195	8.8	6.83	775	4.3	-						
	232	7.4	5.76	740	4.9	-						
	271	6.3	4.92	705	5.4	-						
	292	5.9	4.57	690	5.6	-						
	338	5.1	3.95	660	6.1	-						
	363	4.7	3.68	650	6.4	-						
	416	4.1	3.21	620	6.8	-						
	220	7.8	6.07	4300	5.5	-						
	258	6.7	5.18	4080	11	-						
	295	5.8	4.53	3900	14	-						
	310	5.5	4.30*	3840	15	-						
	354	4.9	3.77	3680	18	-	**RX**	**67**	**EDR**	**63M4**	16	425
	417	4.1	3.20*	3480	24	-	**RXF**	**67**	**EDR**	**63M4**	20	426
	462	3.7	2.89	3370	29	-						
	525	3.3	2.54	3230	36	-						
	556	3.1	2.40*	3170	40	-						
	653	2.6	2.04	3000	49	-						
	243	7.1	5.50*	3380	5.5	-						
	263	6.5	5.07	3290	5.5	-						
	307	5.6	4.35	3140	12	-						
	352	4.9	3.79	3000	14	-						
	376	4.6	3.55*	2930	15	-						
	426	4.0	3.14	2820	16	-	**RX**	**57**	**EDR**	**63M4**	14	423
	458	3.8	2.91	2750	18	-	**RXF**	**57**	**EDR**	**63M4**	16	424
	506	3.4	2.64*	2660	20	-						
	563	3.1	2.37	2570	22	-						
	654	2.6	2.04	2450	27	-						
	695	2.5	1.92*	2400	28	-						
	808	2.1	1.65	2280	33	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.25	**0.17**	11600	8443	65200	1.10	-							
	0.19	10000	7307	67700	1.30	-							
	0.22	8890	6447	69300	1.45	-							
	0.25	7680	5568	70600	1.70	-	**R**	**147R77**	**EDRS**	**71S4**		425	472
	0.29	6950	4926	71400	1.85	-	**RF**	**147R77**	**EDRS**	**71S4**		430	472
	0.32	6000	4325	72200	2.2	-	**RM**	**147R77**	**EDRS**	**71S4**		600	472
	0.37	5300	3754	72700	2.4	-							
	0.43	4580	3302	73200	2.8	-							
	0.48	3990	2898	73500	3.2	-							
	0.24	7900	5834	53600	1.00	-							
	0.27	7300	5116	54800	1.10	-	**R**	**137R77**	**EDRS**	**71S4**		290	472
	0.31	6160	4464	56800	1.30	-	**RF**	**137R77**	**EDRS**	**71S4**		315	472
	0.36	5420	3928	57900	1.50	-	**RM**	**137R77**	**EDRS**	**71S4**		425	472
	0.30	6820	4709	55700	1.15	-							
	0.35	5820	4018	57300	1.35	-	**R**	**137R77**	**EDRS**	**71S4**		280	472
	0.40	5090	3514	58300	1.55	-	**RF**	**137R77**	**EDRS**	**71S4**		305	472
	0.42	4830	3338	58600	1.65	-	**RM**	**137R77**	**EDRS**	**71S4**		415	472
	0.48	4240	2929	59300	1.90	-							
	0.53	3830	2658	59700	2.1	-							
	0.58	3480	2412	60000	2.3	-							
	0.68	2990	2073	60300	2.7	-	**R**	**137R77**	**EDRS**	**71S4**		290	472
	0.76	2560	1839	60600	3.1	-	**RF**	**137R77**	**EDRS**	**71S4**		315	472
	1.0	1990	1397	60900	4.0	-	**RM**	**137R77**	**EDRS**	**71S4**		425	472
	1.2	1720	1226	61100	4.6	-							
	0.71	2830	1987	35400	1.50	-							
	0.77	2550	1827	36100	1.70	-							
	0.88	2190	1599	36600	1.95	-	**R**	**107R77**	**EDRS**	**71S4**		205	472
	1.0	1950	1400	36800	2.2	-	**RF**	**107R77**	**EDRS**	**71S4**		210	472
	1.2	1680	1226	37100	2.6	-	**RM**	**107R77**	**EDRS**	**71S4**		295	472
	1.5	1310	939	37400	3.3	-							
	1.7	1120	822	37500	3.8	-							
	0.81	2610	1733	23400	1.15	-	**R**	**97R57**	**EDRS**	**71S4**		130	472
	0.87	2440	1623	24400	1.25	-	**RF**	**97R57**	**EDRS**	**71S4**		145	472
							RM	**97R57**	**EDRS**	**71S4**		195	472
	0.77	2720	1823	22800	1.10	-							
	0.89	2360	1583	24800	1.25	-							
	1.0	2040	1396	26200	1.45	-							
	1.1	1770	1228	27200	1.70	-	**R**	**97R57**	**EDRS**	**71S4**		130	472
	1.3	1610	1069	27500	1.85	-	**RF**	**97R57**	**EDRS**	**71S4**		150	472
	1.5	1400	938	27800	2.1	-	**RM**	**97R57**	**EDRS**	**71S4**		200	472
	1.7	1190	824	28000	2.5	-							
	1.9	1060	737	28200	2.8	-							
	2.2	910	632	28300	3.3	-							
	1.4	1530	1037	17000	1.00	-	**R**	**87R57**	**EDRS**	**71S4**		88	472
	1.5	1360	931	18100	1.15	-	**RF**	**87R57**	**EDRS**	**71S4**		96	472
	1.8	1160	802	19200	1.35	-	**RM**	**87R57**	**EDRS**	**71S4**		125	472
	1.6	1300	885	18400	1.20	-							
	1.8	1140	776	19200	1.35	-							
	2.0	1010	685	19800	1.55	-	**R**	**87R57**	**EDRS**	**71S4**		89	472
	2.4	850	599	20000	1.80	-	**RF**	**87R57**	**EDRS**	**71S4**		96	472
	2.7	745	525	20000	2.1	-	**RM**	**87R57**	**EDRS**	**71S4**		125	472
	3.1	655	456	20000	2.4	-							
	5.2	380	268	20000	4.1	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.25	**2.9**	730	488	10700	1.10	-							
	3.2	650	436	11200	1.25	-							
	3.8	555	373	11800	1.45	-	**R**	**77R37**	**EDRS**	**71S4**		49	472
	4.3	490	327	12100	1.65	-	**RF**	**77R37**	**EDRS**	**71S4**		55	472
	4.9	435	289	12400	1.90	-	**RM**	**77R37**	**EDRS**	**71S4**		80	472
	5.4	385	260	12500	2.1	-							
	6.3	325	224	12700	2.5	-							
	3.6	570	388	7890	1.05	-							
	4.1	520	344	8390	1.15	-							
	4.8	425	294	9160	1.40	-							
	5.4	385	261	9410	1.50	-	**R**	**67R37**	**EDRS**	**71S4**		43	472
	6.0	345	234	9640	1.70	-	**RF**	**67R37**	**EDRS**	**71S4**		47	472
	7.0	295	200	9900	2.0	-	**RM**	**67R37**	**EDRS**	**71S4**		62	472
	8.0	255	176	10100	2.3	-							
	8.9	225	158	10200	2.6	-							
	3.7	590	384	7630	1.00	-							
	3.9	550	359	8070	1.10	-							
	4.5	475	310	8790	1.25	-	**R**	**67R37**	**EDRS**	**71S4**		43	472
	5.3	400	264	9330	1.50	-	**RF**	**67R37**	**EDRS**	**71S4**		46	472
	6.0	355	235	9600	1.70	-	**RM**	**67R37**	**EDRS**	**71S4**		61	472
	7.0	300	201	9880	2.0	-							
	7.7	270	181	10000	2.2	-							
	5.2	400	273	7300	1.10	-							
	5.8	350	241	7480	1.30	-							
	6.5	310	215	7590	1.45	-	**R**	**57R37**	**EDRS**	**71S4**		37	472
	7.5	275	187	7690	1.65	-	**RF**	**57R37**	**EDRS**	**71S4**		40	472
	8.6	235	164	7780	1.90	-	**RM**	**57R37**	**EDRS**	**71S4**		52	472
	9.9	205	142	7840	2.2	-							
	4.8	440	290	7130	1.00	-							
	5.4	400	262	7300	1.10	-	**R**	**57R37**	**EDRS**	**71S4**		36	472
	5.7	370	246	7400	1.20	-	**RF**	**57R37**	**EDRS**	**71S4**		39	472
	6.4	330	220	7540	1.35	-	**RM**	**57R37**	**EDRS**	**71S4**		51	472
	7.2	290	195	5470	1.05	-							
	7.7	270	182	5560	1.10	-	**R**	**47R37**	**EDRS**	**71S4**		31	472
	9.1	225	154	5760	1.35	-	**RF**	**47R37**	**EDRS**	**71S4**		31	472
	11	194	130	5010	1.05	-							
	11	185	124	5130	1.10	-	**R**	**37R17**	**EDRS**	**71S4**		20	472
	13	164	110	5340	1.20	-	**RF**	**37R17**	**EDRS**	**71S4**		21	472
	15	139	94	5560	1.45	-							
	11	197	127	4990	1.00	-							
	14	160	104	5380	1.25	-	**R**	**37R17**	**EDRS**	**71S4**		19	472
	16	138	90	5570	1.45	-	**RF**	**37R17**	**EDRS**	**71S4**		21	472
	7.2	330	195.24*	12700	2.5	-							
	8.4	280	166.59	12800	2.9	-	**R**	**77**	**EDRS**	**71S4**		39	456
	9.6	245	145.67	12900	3.3	-	**RF**	**77**	**EDRS**	**71S4**		45	457
	10	235	138.39	13000	3.5	-	**RM**	**77**	**EDRS**	**71S4**		70	457
	12	205	121.42	13000	4.0	-							
	7.0	335	199.81	9690	1.75	-							
	7.6	310	184.07	9820	1.90	-							
	8.9	265	158.14	10000	2.2	-							
	10	230	137.67	10100	2.6	-	**R**	**67**	**EDRS**	**71S4**		34	453
	11	215	128.97	10200	2.7	-	**RF**	**67**	**EDRS**	**71S4**		37	454
	12	194	113.94	10300	3.1	-	**RM**	**67**	**EDRS**	**71S4**		53	454
	13	180	105.83	10300	3.3	-							
	15	163	95.91	10400	3.6	-							
	16	146	86.11	10400	3.9	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.25	**7.5**	315	186.89	7580	1.40	-							
	8.2	290	172.17	7650	1.55	-							
	9.5	250	147.92	7750	1.80	-							
	11	215	128.77	7820	2.1	-							
	12	205	120.63	7840	2.2	-	**R**	**57**	**EDRS**	**71S4**	27	450
	13	181	106.58	7880	2.5	-	**RF**	**57**	**EDRS**	**71S4**	30	451
	14	168	98.99	7900	2.7	-	**RM**	**57**	**EDRS**	**71S4**	42	451
	16	152	89.71	7920	3.0	-						
	17	137	80.55	7940	3.3	-						
	20	118	69.23	7970	3.8	-						
	7.9	300	176.88	5420	1.00	-						
	8.6	275	162.94	5540	1.10	-						
	10	235	139.99	5710	1.25	-						
	12	205	121.87	5830	1.45	-						
	12	194	114.17	5870	1.55	-						
	14	171	100.86	5940	1.75	-						
	15	159	93.68	5970	1.90	-	**R**	**47**	**EDRS**	**71S4**	22	447
	17	144	84.90	6010	2.1	-	**RF**	**47**	**EDRS**	**71S4**	22	448
	18	130	76.23	6040	2.3	-						
	20	116	68.54	6070	2.6	-						
	22	109	64.21	6080	2.8	-						
	25	96	56.73	6100	3.1	-						
	27	90	52.69	6110	3.4	-						
	29	81	47.75	5940	3.7	-						
	13	179	105.28	5190	1.10	-						
	15	154	90.77	5430	1.30	-						
	17	144	84.61	5520	1.40	-						
	19	126	73.96	5660	1.60	-						
	20	118	69.33	5710	1.70	-						
	23	104	61.18	5800	1.90	-	**R**	**37**	**EDRS**	**71S4**	17	444
	25	95	55.76	5840	2.1	-	**RF**	**37**	**EDRS**	**71S4**	18	445
	29	82	48.08	5740	2.4	-						
	31	76	44.81	5630	2.6	-						
	36	67	39.17	5410	2.8	-						
	38	62	36.72	5310	3.0	-						
	43	55	32.40	5110	3.2	-						
	19	126	74.11	4250	1.05	-						
	20	118	69.47	4230	1.10	-						
	23	104	61.30	4110	1.25	-						
	25	95	55.87	4010	1.35	-						
	29	82	48.17	3860	1.60	-						
	31	76	44.90	3790	1.70	-	**R**	**27**	**EDRS**	**71S4**	11	441
	36	67	39.25	3650	1.95	-	**RF**	**27**	**EDRS**	**71S4**	11	442
	38	62	36.79	3590	2.1	-						
	43	55	32.47	3460	2.3	-						
	49	49	28.78	3350	2.5	-						
	57	42	24.47	3200	2.8	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.25	**50**	48	28.37	3340	2.7	-							
	54	44	26.09	3260	2.9	-							
	63	38	22.32	3110	3.2	-							
	73	33	19.35	2980	3.6	-							
	78	31	18.08	2920	3.7	-							
	90	27	15.63	2800	4.1	-							
	106	23	13.28*	2660	4.6	-							
	118	20	11.86	2570	5.0	-							
	139	17	10.13	2450	5.7	-	**R**	**27**	**EDRS**	**71S4**		11	441
	149	16	9.41	2380	5.6	-	**RF**	**27**	**EDRS**	**71S4**		11	442
	172	14	8.16	2280	6.2	-							
	184	13	7.63*	2230	6.5	-							
	213	11	6.59	2130	7.1	-							
	251	9.5	5.60*	2020	8.0	-							
	281	8.5	5.00*	1950	8.6	-							
	329	7.3	4.27	1860	9.6	-							
	351	6.8	4.00*	1820	10	-							
	417	5.7	3.37	1720	12	-							
	30	81	47.44	2030	1.05	-							
	32	75	44.18	2220	1.15	-							
	36	66	38.61	2170	1.30	-							
	39	62	36.20	2140	1.40	-	**R**	**17**	**EDRS**	**71S4**		10	438
	44	54	31.94	2090	1.55	-	**RF**	**17**	**EDRS**	**71S4**		10.0	439
	50	48	28.32	2040	1.70	-							
	58	41	24.07	1960	1.90	-							
	56	43	25.23	1990	1.90	-							
	61	39	23.15	1950	2.0	-							
	71	34	19.71	1870	2.3	-							
	83	29	16.99	1800	2.5	-	**R**	**17**	**EDRS**	**71S4**		9.8	438
	89	27	15.84	1770	2.6	-	**RF**	**17**	**EDRS**	**71S4**		9.7	439
	102	24	13.84	1710	2.9	-							
	108	22	12.98	1680	3.0	-							
	123	20	11.45	1620	3.3	-							
	48	49	29.08	960	1.00	-							
	52	46	26.97	960	1.10	-	**R**	**07**	**EDRS**	**71S4**		9.0	435
	60	40	23.32	940	1.25	-	**RF**	**07**	**EDRS**	**71S4**		9.0	436
	65	37	21.73	940	1.35	-							
	77	31	18.31	910	1.60	-							
	84	28	16.73	900	1.75	-							
	100	24	14.12	870	2.0	-							
	117	20	12.06	840	2.2	-							
	126	19	11.18	830	2.4	-							
	145	16	9.67	800	2.6	-							
	156	15	9.01	790	2.8	-							
	179	13	7.85	765	3.1	-	**R**	**07**	**EDRS**	**71S4**		8.8	435
	188	13	7.48	755	3.1	-	**RF**	**07**	**EDRS**	**71S4**		8.8	436
	206	12	6.83	740	3.3	-							
	244	9.8	5.76	710	3.7	-							
	285	8.4	4.92	680	4.0	-							
	308	7.8	4.57	665	4.2	-							
	356	6.7	3.95	640	4.6	-							
	382	6.3	3.68	625	4.8	-							
	438	5.4	3.21	600	5.2	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.25	**232**	10	6.07	4210	4.2	-							
	271	8.8	5.18	4000	8.5	-							
	310	7.7	4.53	3820	11	-							
	327	7.3	4.30*	3760	11	-							
	372	6.4	3.77	3600	14	-	**RX**	**67**		**EDRS**	**71S4**	20	425
	439	5.4	3.20*	3420	19	-	**RXF**	**67**		**EDRS**	**71S4**	24	426
	486	4.9	2.89	3300	22	-							
	553	4.3	2.54	3170	27	-							
	585	4.1	2.40*	3110	30	-							
	688	3.5	2.04	2950	37	-							
	255	9.3	5.50*	3310	4.2	-							
	277	8.6	5.07	3220	4.2	-							
	323	7.4	4.35	3070	9.2	-							
	371	6.4	3.79	2930	11	-							
	396	6.0	3.55*	2870	12	-							
	448	5.3	3.14	2760	12	-	**RX**	**57**		**EDRS**	**71S4**	17	423
	482	4.9	2.91	2690	14	-	**RXF**	**57**		**EDRS**	**71S4**	19	424
	532	4.5	2.64*	2610	15	-							
	593	4.0	2.37	2520	17	-							
	688	3.5	2.04	2400	20	-							
	732	3.3	1.92*	2350	21	-							
	850	2.8	1.65	2240	25	-							
0.37	**0.25**	12100	5568	64200	1.05	-							
	0.28	10900	4926	66300	1.20	-							
	0.32	9510	4325	68500	1.35	-	**R**	**147R77**		**EDRS**	**71M4**	425	472
	0.37	8340	3754	69900	1.55	-	**RF**	**147R77**		**EDRS**	**71M4**	435	472
	0.42	7260	3302	71100	1.80	-	**RM**	**147R77**		**EDRS**	**71M4**	600	472
	0.47	6340	2898	71900	2.0	-							
	0.39	7970	3514	53400	1.00	-							
	0.41	7570	3338	54300	1.05	-	**R**	**137R77**		**EDRS**	**71M4**	285	472
	0.47	6640	2929	56000	1.20	-	**RF**	**137R77**		**EDRS**	**71M4**	305	472
	0.55	5620	2484	57600	1.40	-	**RM**	**137R77**		**EDRS**	**71M4**	420	472
	0.61	5040	2242	58300	1.60	-							
	0.52	6010	2658	57000	1.35	-							
	0.57	5460	2412	57800	1.45	-							
	0.66	4690	2073	58800	1.70	-							
	0.75	4070	1839	59400	1.95	-	**R**	**137R77**		**EDRS**	**71M4**	290	472
	0.98	3140	1397	60200	2.6	-	**RF**	**137R77**		**EDRS**	**71M4**	315	472
	1.1	2730	1226	60500	2.9	-	**RM**	**137R77**		**EDRS**	**71M4**	425	472
	1.3	2450	1090	60700	3.3	-							
	1.4	2130	951	60900	3.7	-							
	0.81	3800	1693	31900	1.15	-							
	0.89	3430	1550	33400	1.25	-	**R**	**107R77**		**EDRS**	**71M4**	200	472
	0.98	3110	1407	34600	1.40	-	**RF**	**107R77**		**EDRS**	**71M4**	205	472
	1.1	2680	1209	35900	1.60	-	**RM**	**107R77**		**EDRS**	**71M4**	295	472
	1.3	2330	1055	36400	1.85	-							
	0.75	4050	1827	30800	1.05	-							
	0.86	3500	1599	33200	1.25	-							
	0.98	3100	1400	34600	1.40	-	**R**	**107R77**		**EDRS**	**71M4**	205	472
	1.1	2680	1226	35900	1.60	-	**RF**	**107R77**		**EDRS**	**71M4**	210	472
	1.5	2080	939	36700	2.1	-	**RM**	**107R77**		**EDRS**	**71M4**	300	472
	1.7	1800	822	37000	2.4	-							
	1.1	2770	1207	22500	1.10	-	**R**	**97R57**		**EDRS**	**71M4**	130	472
	1.3	2470	1084	24200	1.20	-	**RF**	**97R57**		**EDRS**	**71M4**	150	472
							RM	**97R57**		**EDRS**	**71M4**	200	472

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.37	**1.1**	2780	1228	22400	1.10	-							
	1.3	2480	1069	24200	1.20	-							
	1.5	2170	938	25700	1.40	-							
	1.7	1870	824	26900	1.60	-	**R**	**97R57**	**EDRS**	**71M4**		135	472
	1.9	1670	737	27400	1.80	-	**RF**	**97R57**	**EDRS**	**71M4**		150	472
	2.2	1430	632	27700	2.1	-	**RM**	**97R57**	**EDRS**	**71M4**		200	472
	3.2	980	431	28200	3.0	-							
	3.6	860	379	28300	3.5	-							
	4.1	765	336	28400	3.9	-							
	2.1	1450	649	17600	1.05	-	**R**	**87R57**	**EDRS**	**71M4**		91	472
							RF	**87R57**	**EDRS**	**71M4**		98	472
							RM	**87R57**	**EDRS**	**71M4**		130	472
	2.3	1340	599	18200	1.15	-							
	2.6	1170	525	19100	1.30	-	**R**	**87R57**	**EDRS**	**71M4**		91	472
	3.0	1020	456	19700	1.50	-	**RF**	**87R57**	**EDRS**	**71M4**		99	472
	5.1	595	268	20000	2.6	-	**RM**	**87R57**	**EDRS**	**71M4**		130	472
	5.8	525	236	20000	2.9	-							
	2.6	1260	538	18600	1.20	-							
	2.9	1100	472	19400	1.40	-	**R**	**87R57**	**EDRS**	**71M4**		90	472
	3.4	930	400	20000	1.65	-	**RF**	**87R57**	**EDRS**	**71M4**		97	472
	3.8	830	361	20000	1.85	-	**RM**	**87R57**	**EDRS**	**71M4**		125	472
	4.2	755	327	10500	1.10	-							
	4.8	670	289	11100	1.20	-							
	5.3	600	260	11500	1.35	-	**R**	**77R37**	**EDRS**	**71M4**		50	472
	6.1	510	224	12000	1.60	-	**RF**	**77R37**	**EDRS**	**71M4**		56	472
	7.0	445	197	12300	1.85	-	**RM**	**77R37**	**EDRS**	**71M4**		81	472
	8.1	390	169	12500	2.1	-							
	9.2	340	149	12700	2.4	-							
	5.9	540	234	8200	1.10	-	**R**	**67R37**	**EDRS**	**71M4**		45	472
	6.9	455	200	8920	1.30	-	**RF**	**67R37**	**EDRS**	**71M4**		48	472
							RM	**67R37**	**EDRS**	**71M4**		63	472
	4.8	740	289.74	28400	4.0	-							
	5.4	655	255.71	28500	4.6	-	**R**	**97**	**EDRS**	**71M4**		110	462
	5.7	615	241.25	28500	4.8	-	**RF**	**97**	**EDRS**	**71M4**		125	463
	6.4	555	216.28	28500	5.4	-	**RM**	**97**	**EDRS**	**71M4**		180	463
	5.6	630	246.54	20000	2.4	-							
	6.4	555	216.54	20000	2.8	-							
	6.7	525	205.71	20000	2.9	-	**R**	**87**	**EDRS**	**71M4**		68	459
	7.6	465	181.77	20000	3.3	-	**RF**	**87**	**EDRS**	**71M4**		75	460
	8.8	395	155.34	20000	3.9	-	**RM**	**87**	**EDRS**	**71M4**		105	460
	9.7	365	142.41	20000	4.2	-							
	7.0	500	195.24*	12100	1.65	-							
	8.2	425	166.59	12400	1.90	-							
	9.4	370	145.67	12600	2.2	-	**R**	**77**	**EDRS**	**71M4**		42	456
	9.9	355	138.39	12600	2.3	-	**RF**	**77**	**EDRS**	**71M4**		48	457
	11	310	121.42	12800	2.6	-	**RM**	**77**	**EDRS**	**71M4**		73	457
	13	260	102.99	12900	3.1	-							
	15	235	92.97	12900	3.4	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.37	**6.9**	510	199.81	8460	1.15	-							
	7.5	470	184.07	8810	1.25	-							
	8.7	405	158.14	9300	1.50	-							
	10.0	350	137.67	9610	1.70	-							
	11	330	128.97	9730	1.80	-							
	12	290	113.94	9920	2.0	-	**R**	**67**	**EDRS**	**71M4**		36	453
	13	270	105.83	10000	2.2	-	**RF**	**67**	**EDRS**	**71M4**		39	454
	14	245	95.91	10100	2.4	-	**RM**	**67**	**EDRS**	**71M4**		55	454
	16	220	86.11	10200	2.6	-							
	19	191	74.17	10300	2.8	-							
	20	179	69.75	10300	2.9	-							
	22	157	61.26	10400	3.0	-							
	24	146	56.89	10400	3.2	-							
	8.0	440	172.17	7140	1.00	-							
	9.3	380	147.92	7380	1.20	-							
	11	330	128.77	7540	1.35	-							
	11	310	120.63	7600	1.45	-							
	13	270	106.58	7700	1.65	-							
	14	250	98.99	7740	1.75	-	**R**	**57**	**EDRS**	**71M4**		29	450
	15	230	89.71	7790	1.95	-	**RF**	**57**	**EDRS**	**71M4**		33	451
	17	205	80.55	7840	2.2	-	**RM**	**57**	**EDRS**	**71M4**		45	451
	20	178	69.23	7890	2.5	-							
	21	167	64.85	7900	2.7	-							
	24	147	57.29	7770	3.1	-							
	26	137	53.22	7600	3.2	-							
	29	124	48.23	7390	3.4	-							
	12	290	114.17	5460	1.00	-							
	14	255	100.86	5620	1.15	-							
	15	240	93.68	5700	1.25	-							
	16	215	84.90	5790	1.35	-							
	18	196	76.23	5870	1.55	-							
	20	176	68.54	5930	1.70	-							
	21	165	64.21	5960	1.80	-	**R**	**47**	**EDRS**	**71M4**		24	447
	24	146	56.73	6010	2.1	-	**RF**	**47**	**EDRS**	**71M4**		24	448
	26	135	52.69	5990	2.2	-							
	29	123	47.75	5830	2.4	-							
	32	110	42.87	5650	2.7	-							
	37	95	36.93	5420	3.0	-							
	40	89	34.73	5320	3.1	-							
	41	87	33.79	5280	2.8	-							
	44	80	31.12	5150	2.8	-							
	51	69	26.74	4920	3.8	-	**R**	**47**	**EDRS**	**71M4**		24	447
	59	60	23.28	4720	4.2	-	**RF**	**47**	**EDRS**	**71M4**		24	448
	63	56	21.81	4630	4.4	-							
	19	190	73.96	4900	1.05	-							
	20	178	69.33	5020	1.10	-							
	22	157	61.18	5200	1.25	-							
	25	143	55.76	5300	1.40	-							
	29	124	48.08	5410	1.60	-							
	31	115	44.81	5440	1.75	-	**R**	**37**	**EDRS**	**71M4**		18	444
	35	101	39.17	5290	1.90	-	**RF**	**37**	**EDRS**	**71M4**		19	445
	37	94	36.72	5200	1.95	-							
	42	83	32.40	5020	2.1	-							
	48	74	28.73	4850	2.3	-							
	56	63	24.42	4630	2.6	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.37	**49**	73	28.32	4830	2.5	-								
	53	67	26.03	4720	2.7	-								
	62	57	22.27	4510	3.0	-								
	71	50	19.31	4320	3.4	-	**R**	**37**		**EDRS**	**71M4**		18	444
	76	46	18.05	4230	3.5	-	**RF**	**37**		**EDRS**	**71M4**		19	445
	88	40	15.60	4050	3.9	-								
	104	34	13.25	3860	4.3	-								
	116	30	11.83	3720	4.7	-								
	29	124	48.17	3600	1.05	-								
	31	115	44.90	3620	1.15	-								
	35	101	39.25	3510	1.30	-								
	37	94	36.79	3460	1.40	-	**R**	**27**		**EDRS**	**71M4**		12	441
	42	83	32.47	3350	1.50	-	**RF**	**27**		**EDRS**	**71M4**		12	442
	48	74	28.78	3250	1.65	-								
	56	63	24.47	3120	1.90	-								
	48	73	28.37	3240	1.80	-								
	53	67	26.09	3170	1.90	-								
	62	57	22.32	3040	2.1	-								
	71	50	19.35	2920	2.4	-	**R**	**27**		**EDRS**	**71M4**		12	441
	76	46	18.08	2870	2.4	-	**RF**	**27**		**EDRS**	**71M4**		12	442
	88	40	15.63	2750	2.7	-								
	104	34	13.28*	2620	3.0	-								
	43	82	31.94	1910	1.00	-								
	49	73	28.32	1880	1.10	-	**R**	**17**		**EDRS**	**71M4**		11	438
	57	62	24.07	1830	1.25	-	**RF**	**17**		**EDRS**	**71M4**		11	439
	54	65	25.23	1840	1.25	-								
	59	60	23.15	1820	1.35	-								
	70	51	19.71	1760	1.50	-								
	81	44	16.99	1710	1.65	-								
	87	41	15.84	1690	1.75	-								
	99	36	13.84	1640	1.95	-								
	106	33	12.98	1610	2.0	-								
	120	29	11.45	1560	2.2	-								
	135	26	10.15	1520	2.4	-	**R**	**17**		**EDRS**	**71M4**		11	438
	159	22	8.63	1460	2.8	-	**RF**	**17**		**EDRS**	**71M4**		11	439
	182	19	7.55	1370	2.4	-								
	195	18	7.04	1350	2.5	-								
	224	16	6.15	1300	2.7	-								
	239	15	5.76	1280	2.8	-								
	270	13	5.09	1240	3.0	-								
	305	12	4.51	1200	3.4	-								
	359	9.9	3.83	1150	3.8	-								
	75	47	18.31	800	1.05	-								
	82	43	16.73	795	1.15	-								
	97	36	14.12	785	1.30	-								
	114	31	12.06	770	1.50	-								
	123	29	11.18	765	1.55	-								
	142	25	9.67	745	1.75	-								
	153	23	9.01	735	1.80	-								
	175	20	7.85	720	2.0	-	**R**	**07**		**EDRS**	**71M4**		10	435
	184	19	7.48	715	2.0	-	**RF**	**07**		**EDRS**	**71M4**		10	436
	201	18	6.83	700	2.2	-								
	239	15	5.76	675	2.4	-								
	279	13	4.92	650	2.7	-								
	301	12	4.57	640	2.8	-								
	348	10	3.95	620	3.1	-								
	374	9.5	3.68	605	3.2	-								
	429	8.2	3.21	585	3.4	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.37	**227**	16	6.07	4200	2.8	-							
	266	13	5.18	4000	5.6	-							
	304	12	4.53	3830	7.1	-							
	320	11	4.30*	3760	7.3	-							
	364	9.7	3.77	3610	9.0	-	**RX**	**67**	**EDRS**	**71M4**	23	425
	430	8.2	3.20*	3420	12	-	**RXF**	**67**	**EDRS**	**71M4**	27	426
	476	7.4	2.89	3310	14	-						
	541	6.5	2.54	3180	18	-						
	573	6.2	2.40*	3120	20	-						
	673	5.3	2.04	2960	24	-						
	250	14	5.50*	3300	2.8	-							
	271	13	5.07	3220	2.8	-							
	316	11	4.35	3060	6.1	-							
	363	9.7	3.79	2930	7.1	-							
	387	9.1	3.55*	2870	7.6	-							
	438	8.1	3.14	2760	8.0	-	**RX**	**57**	**EDRS**	**71M4**	20	423
	472	7.5	2.91	2700	8.9	-	**RXF**	**57**	**EDRS**	**71M4**	22	424
	521	6.8	2.64*	2610	10	-						
	580	6.1	2.37	2520	11	-						
	673	5.2	2.04	2400	13	-						
	716	4.9	1.92*	2360	14	-						
	832	4.2	1.65	2240	16	-						
0.55	**0.26**	16800	5407	120000	1.05	-	**R**	**167R97**	**EDRS**	**80S4**	760	472
	0.30	14300	4650	120000	1.25	-	**RF**	**167R97**	**EDRS**	**80S4**	760	472
	0.34	12400	4129	120000	1.45	-	**RM**	**167R97**	**EDRS**	**80S4**	960	472
	0.38	12300	3754	64000	1.05	-	**R**	**147R77**	**EDRS**	**80S4**	425	472
	0.43	10700	3302	66600	1.20	-	**RF**	**147R77**	**EDRS**	**80S4**	435	472
	0.49	9420	2898	68600	1.40	-	**RM**	**147R77**	**EDRS**	**80S4**	600	472
	0.55	8530	2555	69700	1.50	-						
	0.64	7380	2211	71000	1.75	-						
	0.73	6510	1951	71800	2.0	-	**R**	**147R77**	**EDRS**	**80S4**	425	472
	0.83	5560	1705	72500	2.3	-	**RF**	**147R77**	**EDRS**	**80S4**	435	472
	0.92	4980	1536	73000	2.6	-	**RM**	**147R77**	**EDRS**	**80S4**	600	472
	1.1	4310	1329	73400	3.0	-						
	1.2	3750	1166	73700	3.5	-						
	0.68	6920	2073	55500	1.15	-						
	0.77	6050	1839	57000	1.30	-						
	0.89	5180	1598	58200	1.55	-						
	1.0	4640	1397	58800	1.70	-	**R**	**137R77**	**EDRS**	**80S4**	295	472
	1.2	4040	1226	59500	2.00	-	**RF**	**137R77**	**EDRS**	**80S4**	315	472
	1.3	3620	1090	59900	2.2	-	**RM**	**137R77**	**EDRS**	**80S4**	430	472
	1.5	3160	951	60200	2.5	-						
	1.7	2690	831	60500	3.0	-						
	1.2	3970	1209	31100	1.10	-						
	1.3	3470	1055	33300	1.25	-						
	1.5	3030	919	34800	1.40	-	**R**	**107R77**	**EDRS**	**80S4**	200	472
	1.7	2700	815	35800	1.60	-	**RF**	**107R77**	**EDRS**	**80S4**	210	472
	2.0	2360	717	36300	1.80	-	**RM**	**107R77**	**EDRS**	**80S4**	295	472
	2.3	2060	626	36700	2.1	-						
	1.2	4000	1226	31000	1.05	-						
	1.3	3580	1104	32800	1.20	-	**R**	**107R77**	**EDRS**	**80S4**	205	472
	1.5	3080	939	34700	1.40	-	**RF**	**107R77**	**EDRS**	**80S4**	215	472
	1.7	2680	822	35900	1.60	-	**RM**	**107R77**	**EDRS**	**80S4**	300	472

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.55	**1.7**	2750	824	22600	1.10	-								
	1.9	2460	737	24300	1.20	-								
	2.2	2110	632	25900	1.40	-								
	2.5	1830	560	27000	1.65	-								
	2.9	1590	484	27500	1.90	-	**R**	**97R57**	**EDRS**	**80S4**	135	472
	3.3	1440	431	27700	2.1	-	**RF**	**97R57**	**EDRS**	**80S4**	150	472
	3.7	1260	379	27900	2.4	-	**RM**	**97R57**	**EDRS**	**80S4**	205	472
	4.2	1130	336	28100	2.6	-						
	4.8	980	296	28200	3.0	-						
	5.7	820	249	28400	3.6	-						
	3.1	1510	456	17100	1.00	-						
	3.6	1310	398	18400	1.20	-	**R**	**87R57**	**EDRS**	**80S4**	92	472
	4.0	1160	352	19100	1.35	-	**RF**	**87R57**	**EDRS**	**80S4**	99	472
	4.6	1000	305	19800	1.55	-	**RM**	**87R57**	**EDRS**	**80S4**	130	472
	3.5	1360	400	18100	1.15	-	**R**	**87R57**	**EDRS**	**80S4**	91	472
	3.9	1220	361	18800	1.25	-	**RF**	**87R57**	**EDRS**	**80S4**	98	472
							RM	**87R57**	**EDRS**	**80S4**	130	472
	6.0	800	236	10000	1.00	-	**R**	**77R37**	**EDRS**	**80S4**	52	472
	6.4	750	221	10500	1.10	-	**RF**	**77R37**	**EDRS**	**80S4**	57	472
	7.6	630	186	11400	1.30	-	**RM**	**77R37**	**EDRS**	**80S4**	82	472
	4.9	1070	289.74	28200	2.8	-						
	5.5	940	255.71	28300	3.2	-	**R**	**97**	**EDRS**	**80S4**	110	462
	5.9	890	241.25	28300	3.4	-	**RF**	**97**	**EDRS**	**80S4**	125	463
	6.5	800	216.28	28400	3.7	-	**RM**	**97**	**EDRS**	**80S4**	180	463
	5.7	910	246.54	20000	1.70	-						
	6.5	800	216.54	20000	1.95	-						
	6.9	760	205.71	20000	2.0	-						
	7.8	670	181.77	20000	2.3	-	**R**	**87**	**EDRS**	**80S4**	69	459
	9.1	575	155.34	20000	2.7	-	**RF**	**87**	**EDRS**	**80S4**	76	460
	9.9	525	142.41	20000	2.9	-	**RM**	**87**	**EDRS**	**80S4**	105	460
	11	460	124.97	20000	3.3	-						
	12	435	118.43*	20000	3.5	-						
	14	380	103.65	20000	4.0	-						
	8.5	615	166.59	11400	1.35	-						
	9.7	540	145.67	11900	1.50	-						
	10	510	138.39	12000	1.60	-						
	12	450	121.42	12300	1.80	-	**R**	**77**	**EDRS**	**80S4**	43	456
	14	380	102.99	12600	2.1	-	**RF**	**77**	**EDRS**	**80S4**	49	457
	15	345	92.97	12700	2.3	-	**RM**	**77**	**EDRS**	**80S4**	74	457
	17	300	81.80	12800	2.5	-						
	18	285	77.24	12800	2.6	-						
	22	240	65.77	12900	2.9	-						
	9.0	585	158.14	7710	1.00	-						
	10	510	137.67	8480	1.15	-						
	11	475	128.97	8760	1.25	-						
	12	420	113.94	9180	1.40	-						
	13	390	105.83	9380	1.55	-	**R**	**67**	**EDRS**	**80S4**	37	453
	15	355	95.91	9600	1.65	-	**RF**	**67**	**EDRS**	**80S4**	40	454
	16	315	86.11	9790	1.80	-	**RM**	**67**	**EDRS**	**80S4**	56	454
	19	275	74.17	9990	1.95	-						
	20	255	69.75	10100	2.0	-						
	23	225	61.26	10200	2.1	-						
	25	210	56.89	10200	2.2	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.55	**12**	445	120.63	7120	1.00	-							
	13	395	106.58	7320	1.15	-							
	14	365	98.99	7420	1.20	-							
	16	330	89.71	7540	1.35	-							
	18	295	80.55	7630	1.50	-							
	20	255	69.23	7740	1.75	-	**R**	**57**	**EDRS**	**80S4**	30	450
	22	240	64.85	7700	1.85	-	**RF**	**57**	**EDRS**	**80S4**	34	451
	25	210	57.29	7450	2.1	-	**RM**	**57**	**EDRS**	**80S4**	46	451
	27	198	53.22	7310	2.2	-						
	29	179	48.23	7120	2.4	-						
	33	161	43.30	6910	2.5	-						
	38	138	37.30*	6620	2.8	-						
	40	130	35.07	6510	2.9	-						
	54	98	26.31	5990	4.4	-						
	57	93	24.99*	5900	4.6	-	**R**	**57**	**EDRS**	**80S4**	29	450
	65	81	21.93	5670	5.0	-	**RF**	**57**	**EDRS**	**80S4**	33	451
	76	69	18.60*	5400	5.7	-	**RM**	**57**	**EDRS**	**80S4**	45	451
	19	280	76.23	5510	1.05	-						
	21	250	68.54	5640	1.20	-						
	22	235	64.21	5710	1.25	-						
	25	210	56.73	5820	1.40	-						
	27	196	52.69	5710	1.55	-	**R**	**47**	**EDRS**	**80S4**	25	447
	30	177	47.75	5570	1.70	-	**RF**	**47**	**EDRS**	**80S4**	25	448
	33	159	42.87	5420	1.90	-						
	38	137	36.93	5210	2.1	-						
	41	129	34.73	5120	2.2	-						
	47	111	29.88	4910	2.4	-						
	53	99	26.74	4760	2.6	-						
	61	86	23.28	4580	2.9	-	**R**	**47**	**EDRS**	**80S4**	24	447
	65	81	21.81	4490	3.0	-	**RF**	**47**	**EDRS**	**80S4**	24	448
	29	178	48.08	3770	1.10	-						
	32	166	44.81	3910	1.20	-						
	36	145	39.17	4120	1.30	-						
	39	136	36.72	4210	1.35	-	**R**	**37**	**EDRS**	**80S4**	21	444
	44	120	32.40	4330	1.45	-	**RF**	**37**	**EDRS**	**80S4**	22	445
	49	107	28.73	4410	1.60	-						
	58	91	24.42	4450	1.80	-						
	64	83	22.27	4340	2.1	-						
	73	72	19.31	4170	2.3	-						
	78	67	18.05	4090	2.4	-	**R**	**37**	**EDRS**	**80S4**	21	444
	91	58	15.60	3930	2.7	-	**RF**	**37**	**EDRS**	**80S4**	22	445
	107	49	13.25	3750	3.0	-						
	120	44	11.83	3620	3.3	-						
	44	120	32.47	2780	1.05	-						
	49	107	28.78	2910	1.15	-	**R**	**27**	**EDRS**	**80S4**	15	441
	58	91	24.47	2940	1.30	-	**RF**	**27**	**EDRS**	**80S4**	15	442

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.55	**63**	83	22.32	2880	1.45	-							
	73	72	19.35	2780	1.65	-							
	78	67	18.08	2740	1.70	-							
	91	58	15.63	2640	1.90	-							
	107	49	13.28*	2520	2.1	-							
	119	44	11.86	2450	2.3	-							
	140	38	10.13	2340	2.6	-							
	150	35	9.41	2270	2.6	-	**R**	**27**		**EDRS**	**80S4**	15	441
	173	30	8.16	2180	2.8	-	**RF**	**27**		**EDRS**	**80S4**	15	442
	186	28	7.63*	2140	3.0	-							
	215	24	6.59	2050	3.3	-							
	253	21	5.60*	1960	3.6	-							
	283	19	5.00*	1890	3.9	-							
	331	16	4.27	1800	4.4	-							
	354	15	4.00*	1770	4.7	-							
	420	12	3.37	1680	5.3	-							
	72	73	19.71	1580	1.05	-							
	83	63	16.99	1550	1.15	-							
	89	59	15.84	1540	1.20	-							
	102	51	13.84	1500	1.35	-							
	109	48	12.98	1490	1.40	-							
	124	42	11.45	1450	1.55	-							
	139	38	10.15	1420	1.70	-							
	164	32	8.63	1370	1.95	-	**R**	**17**		**EDRS**	**80S4**	13	438
	187	28	7.55	1280	1.65	-	**RF**	**17**		**EDRS**	**80S4**	13	439
	201	26	7.04	1260	1.70	-							
	230	23	6.15	1230	1.90	-							
	245	21	5.76	1210	1.95	-							
	278	19	5.09	1170	2.1	-							
	314	17	4.51	1140	2.3	-							
	369	14	3.83	1100	2.7	-							
	273	19	5.18	3920	3.9	-							
	313	17	4.53	3760	4.9	-							
	329	16	4.30*	3700	5.0	-							
	375	14	3.77	3550	6.2	-							
	442	12	3.20*	3360	8.4	-							
	490	11	2.89	3260	9.9	-	**RX**	**67**		**EDRS**	**80S4**	23	425
	557	9.4	2.54	3120	13	-	**RXF**	**67**		**EDRS**	**80S4**	27	426
	590	8.9	2.40*	3070	14	-							
	692	7.6	2.04	2910	17	-							
	762	6.9	1.86	2820	18	-							
	880	6.0	1.61	2690	19	-							
	325	16	4.35	3000	4.2	-							
	373	14	3.79	2870	4.9	-							
	399	13	3.55*	2810	5.2	-							
	451	12	3.14	2710	5.6	-							
	486	11	2.91	2640	6.2	-							
	536	9.8	2.64*	2560	7.0	-	**RX**	**57**		**EDRS**	**80S4**	21	423
	597	8.8	2.37	2480	7.8	-	**RXF**	**57**		**EDRS**	**80S4**	23	424
	693	7.6	2.04	2360	9.1	-							
	737	7.1	1.92*	2320	9.7	-							
	856	6.1	1.65	2210	11	-							
	959	5.5	1.48	2130	12	-							
	1085	4.8	1.30	2040	13	-							
0.75	**0.35**	17300	4129	120000	1.05	-	**R**	**167R97**		**EDRE**	**80M4**	760	472
							RF	**167R97**		**EDRE**	**80M4**	770	472
							RM	**167R97**		**EDRE**	**80M4**	960	472

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.75	**0.54**	11600	2657	120000	1.55	-								
	0.62	10000	2333	120000	1.80	-		**R**	**167R97**	**EDRE**	**80M4**	760	472
	0.69	8880	2085	120000	2.0	-		**RF**	**167R97**	**EDRE**	**80M4**	760	472
	1.0	6280	1438	120000	2.9	-		**RM**	**167R97**	**EDRE**	**80M4**	960	472
	0.50	12800	2898	62900	1.00	-		**R**	**147R77**	**EDRE**	**80M4**	430	472
								RF	**147R77**	**EDRE**	**80M4**	435	472
								RM	**147R77**	**EDRE**	**80M4**	600	472
	0.56	11600	2555	65300	1.10	-							
	0.65	10000	2211	67700	1.30	-							
	0.74	8860	1951	69300	1.45	-		**R**	**147R77**	**EDRE**	**80M4**	430	472
	0.84	7610	1705	70700	1.70	-		**RF**	**147R77**	**EDRE**	**80M4**	435	472
	0.93	6830	1536	71500	1.90	-		**RM**	**147R77**	**EDRE**	**80M4**	600	472
	1.1	5910	1329	72300	2.2	-							
	1.2	5150	1166	72800	2.5	-							
	0.90	7090	1586	55200	1.15	-		**R**	**137R77**	**EDRE**	**80M4**	285	472
	1.0	6320	1391	56500	1.25	-		**RF**	**137R77**	**EDRE**	**80M4**	310	472
	1.1	5680	1256	57500	1.40	-		**RM**	**137R77**	**EDRE**	**80M4**	420	472
	0.90	7110	1598	55200	1.10	-							
	1.0	6320	1397	56500	1.25	-							
	1.2	5520	1226	57700	1.45	-		**R**	**137R77**	**EDRE**	**80M4**	295	472
	1.3	4930	1090	58500	1.60	-		**RF**	**137R77**	**EDRE**	**80M4**	320	472
	1.5	4300	951	59200	1.85	-		**RM**	**137R77**	**EDRE**	**80M4**	430	472
	1.7	3700	831	59800	2.2	-							
	2.0	3220	730	60200	2.5	-							
	1.6	4140	919	30300	1.05	-		**R**	**107R77**	**EDRE**	**80M4**	205	472
	1.8	3690	815	32400	1.15	-		**RF**	**107R77**	**EDRE**	**80M4**	210	472
								RM	**107R77**	**EDRE**	**80M4**	300	472
	1.5	4210	939	29900	1.00	-							
	1.8	3670	822	32500	1.15	-		**R**	**107R77**	**EDRE**	**80M4**	210	472
	3.9	1640	369	37100	2.6	-		**RF**	**107R77**	**EDRE**	**80M4**	215	472
	4.4	1430	323	37300	3.0	-		**RM**	**107R77**	**EDRE**	**80M4**	305	472
	2.3	2870	632	21800	1.05	-							
	2.6	2510	560	24000	1.20	-							
	3.0	2180	484	25600	1.40	-							
	3.3	1960	431	26500	1.50	-		**R**	**97R57**	**EDRE**	**80M4**	135	472
	3.8	1720	379	27300	1.75	-		**RF**	**97R57**	**EDRE**	**80M4**	155	472
	4.3	1530	336	27600	1.95	-		**RM**	**97R57**	**EDRE**	**80M4**	205	472
	4.8	1340	296	27900	2.2	-							
	5.8	1120	249	28100	2.7	-							
	4.7	1360	305	18100	1.15	-		**R**	**87R57**	**EDRE**	**80M4**	95	472
	5.4	1200	268	18900	1.30	-		**RF**	**87R57**	**EDRE**	**80M4**	100	472
	6.1	1060	236	19600	1.45	-		**RM**	**87R57**	**EDRE**	**80M4**	130	472
	4.8	1370	300	18000	1.10	-		**R**	**87R57**	**EDRE**	**80M4**	93	472
	5.6	1160	256	19100	1.35	-		**RF**	**87R57**	**EDRE**	**80M4**	100	472
								RM	**87R57**	**EDRE**	**80M4**	130	472
	5.0	1440	289.74	27700	2.1	-							
	5.6	1270	255.71	27900	2.4	-							
	6.0	1200	241.25	28000	2.5	-		**R**	**97**	**EDRE**	**80M4**	115	462
	6.6	1070	216.28	28100	2.8	-		**RF**	**97**	**EDRE**	**80M4**	130	463
	7.7	920	186.30	28300	3.2	-		**RM**	**97**	**EDRE**	**80M4**	180	463
	8.4	840	170.02	28400	3.5	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.75	**5.8**	1230	246.54	18800	1.25	-								
	6.6	1080	216.54	19500	1.45	-								
	7.0	1020	205.71	19700	1.50	-								
	7.9	900	181.77	20000	1.70	-								
	9.2	775	155.34	20000	2.0	-	**R**	**87**		**EDRE**	**80M4**		72	459
	10	710	142.41	20000	2.2	-	**RF**	**87**		**EDRE**	**80M4**		79	460
	11	620	124.97	20000	2.5	-	**RM**	**87**		**EDRE**	**80M4**		110	460
	12	590	118.43*	20000	2.6	-								
	14	515	103.65	20000	3.0	-								
	15	465	93.38	20000	3.3	-								
	9.8	725	145.67	10700	1.15	-								
	10	690	138.39	11000	1.20	-								
	12	605	121.42	11500	1.35	-								
	14	510	102.99	12000	1.60	-								
	15	460	92.97	12200	1.70	-								
	18	405	81.80	12500	1.85	-	**R**	**77**		**EDRE**	**80M4**		46	456
	19	385	77.24	12500	1.95	-	**RF**	**77**		**EDRE**	**80M4**		51	457
	22	325	65.77	12700	2.2	-	**RM**	**77**		**EDRE**	**80M4**		76	457
	25	285	57.68	12800	2.7	-								
	28	255	52.07	12900	2.9	-								
	31	225	45.81	13000	3.2	-								
	33	215	43.26	13000	3.3	-								
	13	565	113.94	7920	1.05	-								
	14	525	105.83	8320	1.15	-								
	15	475	95.91	8760	1.25	-								
	17	425	86.11	9140	1.35	-								
	19	370	74.17	9520	1.45	-	**R**	**67**		**EDRE**	**80M4**		40	453
	21	345	69.75	9640	1.50	-	**RF**	**67**		**EDRE**	**80M4**		43	454
	23	305	61.26	9860	1.55	-	**RM**	**67**		**EDRE**	**80M4**		58	454
	25	280	56.89	9960	1.60	-								
	28	255	51.56	10100	1.70	-								
	31	230	46.29	10200	1.85	-								
	16	445	89.71	7120	1.00	-								
	18	400	80.55	7300	1.10	-								
	21	345	69.23	7470	1.30	-								
	22	320	64.85	7360	1.40	-								
	25	285	57.29	7150	1.55	-								
	27	265	53.22	7030	1.65	-	**R**	**57**		**EDRE**	**80M4**		33	450
	30	240	48.23	6860	1.75	-	**RF**	**57**		**EDRE**	**80M4**		36	451
	33	215	43.30	6670	1.85	-	**RM**	**57**		**EDRE**	**80M4**		48	451
	38	186	37.30*	6420	2.1	-								
	41	175	35.07	6320	2.2	-								
	48	151	30.18	6060	2.4	-								
	53	135	26.97	5880	2.6	-								
	55	131	26.31	5840	3.3	-								
	57	125	24.99*	5760	3.4	-	**R**	**57**		**EDRE**	**80M4**		32	450
	65	109	21.93	5540	3.8	-	**RF**	**57**		**EDRE**	**80M4**		35	451
	77	93	18.60*	5290	4.3	-	**RM**	**57**		**EDRE**	**80M4**		47	451
	25	280	56.73	5210	1.05	-								
	27	260	52.69	5400	1.15	-								
	30	235	47.75	5320	1.25	-								
	33	210	42.87	5190	1.40	-								
	39	184	36.93	5010	1.55	-	**R**	**47**		**EDRE**	**80M4**		28	447
	41	173	34.73	4930	1.60	-	**RF**	**47**		**EDRE**	**80M4**		28	448
	48	149	29.88	4750	1.80	-								
	54	133	26.70	4610	1.95	-								
	61	118	23.59	4460	2.1	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.75	**54**	134	26.74	4610	1.95	-							
	62	116	23.28	4450	2.2	-							
	66	109	21.81	4370	2.2	-	**R**	**47**	**EDRE**	**80M4**	27	447
	74	96	19.27	4220	2.5	-	**RF**	**47**	**EDRE**	**80M4**	27	448
	80	89	17.89	4140	2.6	-						
	88	81	16.22	4020	2.8	-						
	39	183	36.72	2840	1.00	-						
	44	162	32.40	3120	1.10	-	**R**	**37**	**EDRE**	**80M4**	23	444
	50	143	28.73	3340	1.20	-	**RF**	**37**	**EDRE**	**80M4**	25	445
	59	122	24.42	3560	1.35	-						
	64	111	22.27	3650	1.55	-						
	74	96	19.31	3750	1.70	-						
	80	90	18.05	3780	1.80	-						
	92	78	15.60	3810	2.00	-	**R**	**37**	**EDRE**	**80M4**	23	444
	108	66	13.25	3650	2.2	-	**RF**	**37**	**EDRE**	**80M4**	25	445
	121	59	11.83	3540	2.4	-						
	142	50	10.11	3380	2.8	-						
	152	47	9.47	3320	2.9	-						
	64	111	22.32	2300	1.10	-						
	74	97	19.35	2450	1.20	-						
	79	90	18.08	2500	1.25	-						
	92	78	15.63	2520	1.40	-						
	108	66	13.28*	2430	1.55	-						
	121	59	11.86	2360	1.70	-						
	142	50	10.13	2270	1.95	-	**R**	**27**	**EDRE**	**80M4**	17	441
	152	47	9.41	2190	1.90	-	**RF**	**27**	**EDRE**	**80M4**	17	442
	176	41	8.16	2110	2.1	-						
	188	38	7.63*	2070	2.2	-						
	218	33	6.59	1990	2.4	-						
	256	28	5.60*	1900	2.7	-						
	287	25	5.00*	1850	2.9	-						
	104	69	13.84	1370	1.00	-						
	111	65	12.98	1360	1.05	-						
	125	57	11.45	1340	1.15	-						
	141	51	10.15	1320	1.25	-						
	166	43	8.63	1280	1.45	-						
	190	38	7.55	1190	1.20	-	**R**	**17**	**EDRE**	**80M4**	16	438
	204	35	7.04	1180	1.30	-	**RF**	**17**	**EDRE**	**80M4**	16	439
	233	31	6.15	1150	1.40	-						
	249	29	5.76	1140	1.45	-						
	282	25	5.09	1110	1.55	-						
	318	22	4.51	1080	1.75	-						
	374	19	3.83	1040	2.00	-						
	277	26	5.18	3860	2.9	-						
	317	23	4.53	3700	3.6	-						
	334	22	4.30*	3640	3.7	-						
	380	19	3.77	3500	4.6	-						
	448	16	3.20*	3320	6.2	-						
	497	14	2.89	3220	7.4	-	**RX**	**67**	**EDRE**	**80M4**	26	425
	565	13	2.54	3090	9.3	-	**RXF**	**67**	**EDRE**	**80M4**	30	426
	598	12	2.40*	3030	10	-						
	702	10	2.04	2880	13	-						
	773	9.3	1.86	2790	13	-						
	892	8.0	1.61	2670	14	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.75	**330**	22	4.35	2940	3.1	-							
	379	19	3.79	2820	3.6	-							
	404	18	3.55*	2770	3.9	-							
	458	16	3.14	2660	4.1	-							
	493	14	2.91	2600	4.6	-							
	544	13	2.64*	2520	5.2	-	**RX**	**57**		**EDRE**	**80M4**	23	423
	605	12	2.37	2440	5.8	-	**RXF**	**57**		**EDRE**	**80M4**	25	424
	703	10	2.04	2330	6.8	-							
	747	9.6	1.92*	2280	7.2	-							
	869	8.2	1.65	2180	8.4	-							
	972	7.4	1.48	2100	9.2	-							
	1100	6.5	1.30	2020	9.7	-							
1.1	**0.53**	17600	2657	120000	1.00	-							
	0.61	15300	2333	120000	1.15	-							
	0.68	13600	2085	120000	1.30	-							
	0.76	12100	1877	120000	1.50	-	**R**	**167R97**		**EDRE**	**90M4**	760	472
	0.85	10800	1670	120000	1.65	-	**RF**	**167R97**		**EDRE**	**90M4**	770	472
	0.99	9540	1438	120000	1.90	-	**RM**	**167R97**		**EDRE**	**90M4**	960	472
	1.1	8480	1279	120000	2.1	-							
	1.3	7390	1123	120000	2.4	-							
	0.83	11400	1705	65500	1.15	-							
	0.92	10300	1536	67300	1.25	-							
	1.1	8920	1329	69200	1.45	-							
	1.2	7790	1166	70500	1.65	-	**R**	**147R77**		**EDRE**	**90M4**	430	472
	1.4	6850	1029	71500	1.90	-	**RF**	**147R77**		**EDRE**	**90M4**	440	472
	1.6	5940	889	72300	2.2	-	**RM**	**147R77**		**EDRE**	**90M4**	610	472
	1.8	5220	784	72800	2.5	-							
	2.0	4600	695	73200	2.8	-							
	1.3	7480	1105	54500	1.05	-	**R**	**137R77**		**EDRE**	**90M4**	290	472
	1.4	7050	1043	55300	1.15	-	**RF**	**137R77**		**EDRE**	**90M4**	315	472
	1.6	5980	888	57100	1.35	-	**RM**	**137R77**		**EDRE**	**90M4**	425	472
	1.3	7400	1090	54600	1.10	-							
	1.5	6460	951	56300	1.25	-							
	1.7	5580	831	57600	1.45	-	**R**	**137R77**		**EDRE**	**90M4**	300	472
	2.0	4870	730	58600	1.65	-	**RF**	**137R77**		**EDRE**	**90M4**	325	472
	2.3	4160	629	59300	1.90	-	**RM**	**137R77**		**EDRE**	**90M4**	435	472
	2.5	3770	560	59700	2.1	-							
	2.9	3250	490	60200	2.5	-							
	2.3	4090	614	30500	1.05	-							
	2.6	3610	544	32700	1.20	-							
	2.9	3260	492	34000	1.30	-							
	3.4	2760	417	35600	1.55	-	**R**	**107R77**		**EDRE**	**90M4**	215	472
	3.8	2470	369	36200	1.75	-	**RF**	**107R77**		**EDRE**	**90M4**	220	472
	4.4	2160	323	36600	2.00	-	**RM**	**107R77**		**EDRE**	**90M4**	305	472
	5.0	1900	285	36900	2.3	-							
	5.6	1670	253	37100	2.6	-							
	3.3	2940	431	21300	1.00	-							
	3.7	2580	379	23600	1.15	-							
	4.2	2290	336	25100	1.30	-	**R**	**97R57**		**EDRE**	**90M4**	140	472
	4.8	2010	296	26300	1.50	-	**RF**	**97R57**		**EDRE**	**90M4**	160	472
	5.7	1680	249	27400	1.80	-	**RM**	**97R57**		**EDRE**	**90M4**	210	472
	6.1	1570	234	27500	1.90	-							
	6.8	1400	209	27800	2.1	-							
	6.8	1400	209	17900	1.10	-	**R**	**87R57**		**EDRE**	**90M4**	99	472
							RF	**87R57**		**EDRE**	**90M4**	105	472
							RM	**87R57**		**EDRE**	**90M4**	135	472

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
1.1	**7.3**	1340	195	18200	1.15	-		**R**	**87R57**	**EDRE**	**90M4**	97	472
								RF	**87R57**	**EDRE**	**90M4**	105	472
								RM	**87R57**	**EDRE**	**90M4**	135	472
	5.6	1890	255.71	26800	1.60	-							
	5.9	1780	241.25	27200	1.70	-							
	6.6	1590	216.28	27500	1.90	-							
	7.6	1370	186.30	27800	2.2	-		**R**	**97**	**EDRE**	**90M4**	115	462
	8.4	1250	170.02	28000	2.4	-		**RF**	**97**	**EDRE**	**90M4**	135	463
	9.4	1110	150.78	28100	2.7	-		**RM**	**97**	**EDRE**	**90M4**	185	463
	11	930	126.75	28300	3.2	-							
	12	860	116.48	28300	3.5	-							
	6.9	1520	205.71	17100	1.00	-							
	7.8	1340	181.77	18200	1.15	-							
	9.1	1140	155.34	19200	1.35	-							
	10.0	1050	142.41	19600	1.45	-							
	11	920	124.97	20000	1.70	-							
	12	870	118.43*	20000	1.75	-		**R**	**87**	**EDRE**	**90M4**	76	459
	14	765	103.65	20000	2.0	-		**RF**	**87**	**EDRE**	**90M4**	83	460
	15	690	93.38	20000	2.2	-		**RM**	**87**	**EDRE**	**90M4**	115	460
	17	605	81.92	20000	2.6	-							
	20	535	72.57	20000	2.9	-							
	22	470	63.68*	20000	3.1	-							
	24	445	60.35*	20000	3.2	-							
	27	390	52.82	20000	3.6	-							
	14	760	102.99	10400	1.10	-							
	15	685	92.97	11000	1.15	-							
	17	605	81.80	11500	1.25	-							
	18	570	77.24	11700	1.30	-							
	22	485	65.77	12100	1.45	-		**R**	**77**	**EDRE**	**90M4**	49	456
	25	425	57.68	12400	1.80	-		**RF**	**77**	**EDRE**	**90M4**	55	457
	27	385	52.07	12500	1.95	-		**RM**	**77**	**EDRE**	**90M4**	80	457
	31	335	45.81	12700	2.1	-							
	33	320	43.26	12700	2.2	-							
	39	270	36.83	12900	2.5	-							
	42	245	33.47	12900	2.7	-							
	20	515	69.75	8440	1.00	-							
	23	450	61.26	8960	1.05	-							
	25	420	56.89	9200	1.10	-							
	28	380	51.56	9450	1.15	-		**R**	**67**	**EDRE**	**90M4**	43	453
	31	340	46.29	9670	1.25	-		**RF**	**67**	**EDRE**	**90M4**	46	454
	36	295	39.88*	9910	1.40	-		**RM**	**67**	**EDRE**	**90M4**	62	454
	38	275	37.50	9980	1.45	-							
	44	235	32.27	10100	1.60	-							
	49	210	28.83	10200	1.75	-							
	50	205	28.13	10200	2.5	-							
	53	198	26.72	10100	2.6	-		**R**	**67**	**EDRE**	**90M4**	42	453
	61	173	23.44	9690	2.9	-		**RF**	**67**	**EDRE**	**90M4**	46	454
	71	147	19.89	9230	3.2	-		**RM**	**67**	**EDRE**	**90M4**	61	454
	25	420	57.29	6690	1.05	-							
	27	390	53.22	6600	1.10	-							
	29	355	48.23	6470	1.20	-							
	33	320	43.30	6330	1.25	-		**R**	**57**	**EDRE**	**90M4**	37	450
	38	275	37.30*	6120	1.40	-		**RF**	**57**	**EDRE**	**90M4**	40	451
	40	255	35.07	6040	1.45	-		**RM**	**57**	**EDRE**	**90M4**	52	451
	47	220	30.18	5830	1.65	-							
	53	200	26.97	5670	1.80	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
1.1	**54**	195	26.31	5630	2.2	-							
	57	185	24.99*	5560	2.3	-	**R**	**57**	**EDRE**	**90M4**		36	450
	65	162	21.93	5380	2.5	-	**RF**	**57**	**EDRE**	**90M4**		39	451
	76	138	18.60*	5150	2.9	-	**RM**	**57**	**EDRE**	**90M4**		51	451
	85	124	16.79	5000	3.1	-							
	38	270	36.93	3870	1.05	-							
	41	255	34.73	4050	1.10	-							
	48	220	29.88	4430	1.20	-	**R**	**47**	**EDRE**	**90M4**		31	447
	53	198	26.70	4400	1.30	-	**RF**	**47**	**EDRE**	**90M4**		32	448
	60	174	23.59	4270	1.45	-							
	61	172	23.28	4260	1.45	-							
	65	161	21.81	4190	1.50	-							
	74	142	19.27	4070	1.70	-							
	79	132	17.89	4000	1.75	-							
	88	120	16.22	3900	1.90	-	**R**	**47**	**EDRE**	**90M4**		31	447
	98	108	14.56	3790	2.0	-	**RF**	**47**	**EDRE**	**90M4**		31	448
	113	93	12.54	3640	2.3	-							
	120	87	11.79	3580	2.4	-							
	140	75	10.15	3430	2.7	-							
	157	67	9.07	3320	3.0	-							
	74	143	19.31	2460	1.15	-							
	79	134	18.05	2580	1.20	-							
	91	115	15.60	2790	1.35	-							
	107	98	13.25	2960	1.50	-							
	120	88	11.83	3040	1.65	-							
	140	75	10.11	3120	1.85	-	**R**	**37**	**EDRE**	**90M4**		27	444
	150	70	9.47	3140	1.95	-	**RF**	**37**	**EDRE**	**90M4**		28	445
	178	59	7.97	3080	2.2	-							
	213	49	6.67	2910	2.2	-							
	251	42	5.67	2780	2.4	-							
	281	37	5.06	2690	2.6	-							
	107	98	13.28*	1830	1.05	-							
	120	88	11.86	1940	1.15	-							
	140	75	10.13	2060	1.30	-							
	151	70	9.41	1610	1.30	-							
	174	60	8.16	1740	1.45	-							
	186	56	7.63*	1790	1.50	-	**R**	**27**	**EDRE**	**90M4**		21	441
	215	49	6.59	1870	1.65	-	**RF**	**27**	**EDRE**	**90M4**		21	442
	254	41	5.60*	1840	1.85	-							
	284	37	5.00*	1780	1.95	-							
	332	32	4.27	1710	2.2	-							
	355	30	4.00*	1680	2.3	-							
	421	25	3.37	1610	2.6	-							
	252	42	5.63	5650	2.6	-							
	265	40	5.35*	5560	2.6	-	**RX**	**77**	**EDRE**	**90M4**		40	427
	300	35	4.73	5360	3.5	-	**RXF**	**77**	**EDRE**	**90M4**		42	428
	314	34	4.53	3640	2.4	-							
	330	32	4.30*	3590	2.5	-							
	376	28	3.77	3450	3.1	-							
	444	24	3.20*	3280	4.2	-							
	492	21	2.89	3180	5.0	-							
	559	19	2.54	3060	6.3	-	**RX**	**67**	**EDRE**	**90M4**		30	425
	592	18	2.40*	3000	6.9	-	**RXF**	**67**	**EDRE**	**90M4**		34	426
	695	15	2.04	2860	8.5	-							
	765	14	1.86	2770	9.0	-							
	883	12	1.61	2650	9.6	-							
	1015	10	1.40*	2530	10	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
1.1	**375**	28	3.79	2770	2.5	-							
	400	26	3.55*	2720	2.6	-							
	453	23	3.14	2620	2.8	-							
	487	22	2.91	2560	3.1	-							
	538	20	2.64*	2490	3.5	-							
	599	18	2.37	2410	3.9	-	**RX**	**57**	**EDRE**	**90M4**	27	423
	696	15	2.04	2300	4.6	-	**RXF**	**57**	**EDRE**	**90M4**	29	424
	740	14	1.92*	2260	4.9	-							
	859	12	1.65	2160	5.7	-							
	962	11	1.48	2080	6.2	-							
	1090	9.6	1.30	2000	6.6	-							
1.5	**0.76**	16700	1877	120000	1.05	-							
	0.86	14900	1670	120000	1.20	-							
	0.99	13000	1438	120000	1.40	-	**R**	**167R97**	**EDRE**	**90L4**	760	472
	1.1	11600	1279	120000	1.55	-	**RF**	**167R97**	**EDRE**	**90L4**	770	472
	1.3	10100	1123	120000	1.75	-	**RM**	**167R97**	**EDRE**	**90L4**	960	472
	1.4	9040	999	120000	2.00	-							
	3.4	3850	426	73600	3.4	-	**R**	**147R87**	**EDRE**	**90L4**	455	472
	3.9	3330	368	73900	3.9	-	**RF**	**147R87**	**EDRE**	**90L4**	465	472
							RM	**147R87**	**EDRE**	**90L4**	630	472
	1.1	12200	1329	64200	1.05	-							
	1.2	10600	1166	66800	1.20	-							
	1.4	9380	1029	68600	1.40	-							
	1.6	8130	889	70200	1.60	-	**R**	**147R77**	**EDRE**	**90L4**	435	472
	1.8	7150	784	71200	1.80	-	**RF**	**147R77**	**EDRE**	**90L4**	445	472
	2.1	6320	695	71900	2.1	-	**RM**	**147R77**	**EDRE**	**90L4**	610	472
	2.3	5690	619	72400	2.3	-							
	2.6	5120	558	72900	2.5	-							
	2.0	6400	699	56400	1.25	-	**R**	**137R77**	**EDRE**	**90L4**	295	472
	2.4	5550	609	57700	1.45	-	**RF**	**137R77**	**EDRE**	**90L4**	315	472
							RM	**137R77**	**EDRE**	**90L4**	430	472
	1.7	7630	831	54200	1.05	-							
	2.0	6670	730	55900	1.20	-							
	2.3	5710	629	57400	1.40	-							
	2.6	5150	560	58200	1.55	-	**R**	**137R77**	**EDRE**	**90L4**	305	472
	2.9	4460	490	59000	1.80	-	**RF**	**137R77**	**EDRE**	**90L4**	325	472
	3.3	3890	428	59600	2.0	-	**RM**	**137R77**	**EDRE**	**90L4**	435	472
	3.8	3500	381	59900	2.3	-							
	4.4	2970	323	60400	2.7	-							
	3.4	3790	417	31900	1.15	-	**R**	**107R77**	**EDRE**	**90L4**	215	472
	3.9	3380	369	33600	1.25	-	**RF**	**107R77**	**EDRE**	**90L4**	220	472
	4.4	2960	323	35100	1.45	-	**RM**	**107R77**	**EDRE**	**90L4**	310	472
	4.8	2740	296	22700	1.10	-							
	5.7	2300	249	25100	1.30	-	**R**	**97R57**	**EDRE**	**90L4**	145	472
	6.1	2140	234	25800	1.40	-	**RF**	**97R57**	**EDRE**	**90L4**	160	472
	6.8	1920	209	26700	1.55	-	**RM**	**97R57**	**EDRE**	**90L4**	210	472
	5.6	2560	255.71	23700	1.15	-							
	5.9	2410	241.25	24500	1.25	-							
	6.6	2160	216.28	25700	1.40	-							
	7.7	1860	186.30	26900	1.60	-							
	8.4	1700	170.02	27300	1.75	-	**R**	**97**	**EDRE**	**90L4**	120	462
	9.5	1510	150.78	27600	2.00	-	**RF**	**97**	**EDRE**	**90L4**	135	463
	11	1260	126.75	27900	2.4	-	**RM**	**97**	**EDRE**	**90L4**	190	463
	12	1160	116.48	28100	2.6	-							
	14	1030	103.44	28200	2.9	-							
	15	920	92.48	28300	3.2	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
1.5	**9.2**	1550	155.34	16900	1.00	-							
	10	1420	142.41	17700	1.10	-							
	11	1250	124.97	18700	1.25	-							
	12	1180	118.43*	19000	1.30	-							
	14	1030	103.65	19700	1.50	-							
	15	930	93.38	20000	1.65	-							
	17	820	81.92	20000	1.90	-	**R**	**87**	**EDRE**	**90L4**	79	459
	20	725	72.57	20000	2.1	-	**RF**	**87**	**EDRE**	**90L4**	86	460
	22	635	63.68*	20000	2.3	-	**RM**	**87**	**EDRE**	**90L4**	115	460
	24	600	60.35*	20000	2.4	-						
	27	525	52.82	20000	2.6	-						
	30	475	47.58	20000	2.8	-						
	34	415	41.74	20000	3.1	-						
	39	365	36.84*	19500	3.4	-						
	22	655	65.77	11200	1.05	-						
	25	575	57.68	11700	1.35	-						
	27	520	52.07	12000	1.45	-						
	31	455	45.81	12300	1.60	-	**R**	**77**	**EDRE**	**90L4**	52	456
	33	430	43.26	12400	1.65	-	**RF**	**77**	**EDRE**	**90L4**	58	457
	39	365	36.83	12600	1.85	-	**RM**	**77**	**EDRE**	**90L4**	83	457
	43	335	33.47	12700	1.95	-						
	49	290	29.00	12500	2.2	-						
	57	250	25.23	12000	2.4	-						
	61	230	23.37	11700	2.7	-	**R**	**77**	**EDRE**	**90L4**	51	456
	67	210	21.43	11400	2.8	-	**RF**	**77**	**EDRE**	**90L4**	57	457
	76	188	18.80	11000	3.1	-	**RM**	**77**	**EDRE**	**90L4**	82	457
	36	395	39.88*	9340	1.05	-						
	38	375	37.50	9490	1.05	-	**R**	**67**	**EDRE**	**90L4**	46	453
	44	320	32.27	9770	1.20	-	**RF**	**67**	**EDRE**	**90L4**	49	454
	50	285	28.83	9930	1.30	-	**RM**	**67**	**EDRE**	**90L4**	65	454
	51	280	28.13	9950	1.85	-						
	54	265	26.72	9810	1.90	-	**R**	**67**	**EDRE**	**90L4**	45	453
	61	230	23.44	9460	2.1	-	**RF**	**67**	**EDRE**	**90L4**	48	454
	72	199	19.89	9030	2.4	-	**RM**	**67**	**EDRE**	**90L4**	64	454
	80	180	17.95	8770	2.6	-						
	38	370	37.30*	5760	1.05	-						
	41	350	35.07	5690	1.10	-	**R**	**57**	**EDRE**	**90L4**	40	450
	47	300	30.18	5530	1.20	-	**RF**	**57**	**EDRE**	**90L4**	43	451
	53	270	26.97	5400	1.30	-	**RM**	**57**	**EDRE**	**90L4**	55	451
	54	260	26.31	5370	1.65	-						
	57	250	24.99*	5310	1.70	-						
	65	215	21.93	5160	1.85	-						
	77	186	18.60*	4960	2.1	-	**R**	**57**	**EDRE**	**90L4**	39	450
	85	168	16.79	4840	2.3	-	**RF**	**57**	**EDRE**	**90L4**	42	451
	97	148	14.77*	4680	2.5	-	**RM**	**57**	**EDRE**	**90L4**	54	451
	103	140	13.95*	4610	2.6	-						
	120	119	11.88	4420	3.0	-						
	61	235	23.59	3280	1.05	-	**R**	**47**	**EDRE**	**90L4**	34	447
							RF	**47**	**EDRE**	**90L4**	34	448

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
1.5	**61**	230	23.28	3320	1.05	-							
	66	215	21.81	3490	1.10	-							
	74	193	19.27	3750	1.25	-							
	80	179	17.89	3810	1.30	-							
	88	162	16.22	3730	1.40	-							
	98	146	14.56	3640	1.50	-							
	114	126	12.54	3510	1.65	-							
	121	118	11.79	3460	1.80	-							
	141	102	10.15	3330	2.0	-	**R**	**47**		**EDRE**	**90L4**	34	447
	158	91	9.07	3230	2.2	-	**RF**	**47**		**EDRE**	**90L4**	34	448
	178	80	8.01	3120	2.4	-							
	184	78	7.76*	3050	2.1	-							
	205	70	6.96	2970	2.2	-							
	238	60	6.00	2850	2.5	-							
	254	56	5.64*	2800	2.6	-							
	295	49	4.85	2690	2.9	-							
	330	43	4.34	2600	3.2	-							
	373	38	3.83	2510	3.5	-							
	108	133	13.25	1960	1.10	-							
	121	118	11.83	2160	1.20	-							
	141	101	10.11	2360	1.35	-							
	151	95	9.47	2430	1.45	-							
	179	80	7.97	2570	1.65	-							
	214	67	6.67	2340	1.60	-	**R**	**37**		**EDRE**	**90L4**	30	444
	252	57	5.67	2430	1.80	-	**RF**	**37**		**EDRE**	**90L4**	31	445
	283	51	5.06	2470	1.95	-							
	331	43	4.32	2500	2.2	-							
	353	40	4.05	2460	2.3	-							
	419	34	3.41	2350	2.6	-							
	175	82	8.16	1010	1.05	-							
	188	76	7.63*	1110	1.10	-							
	217	66	6.59	1280	1.20	-							
	255	56	5.60*	1430	1.35	-	**R**	**27**		**EDRE**	**90L4**	24	441
	286	50	5.00*	1510	1.45	-	**RF**	**27**		**EDRE**	**90L4**	24	442
	335	43	4.27	1590	1.65	-							
	358	40	4.00*	1620	1.70	-							
	424	34	3.37	1550	1.95	-							
	254	56	5.63	5560	1.95	-							
	267	54	5.35*	5470	1.90	-							
	302	47	4.73	5270	2.6	-							
	354	40	4.04*	5030	3.5	-							
	386	37	3.70	4900	4.1	-	**RX**	**77**		**EDRE**	**90L4**	42	427
	440	33	3.25*	4700	5.6	-	**RXF**	**77**		**EDRE**	**90L4**	45	428
	464	31	3.08*	4620	6.2	-							
	530	27	2.70	4430	8.0	-							
	589	24	2.43	4290	8.4	-							
	316	45	4.53	3560	1.80	-							
	333	43	4.30*	3510	1.85	-							
	379	38	3.77	3380	2.3	-							
	447	32	3.20*	3220	3.1	-							
	495	29	2.89	3120	3.7	-							
	563	26	2.54	3010	4.6	-	**RX**	**67**		**EDRE**	**90L4**	33	425
	596	24	2.40*	2950	5.1	-	**RXF**	**67**		**EDRE**	**90L4**	37	426
	700	20	2.04	2810	6.2	-							
	770	19	1.86	2730	6.6	-							
	889	16	1.61	2610	7.1	-							
	1020	14	1.40*	2500	7.4	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
1.5	**377**	38	3.79	2690	1.80	-							
	403	36	3.55*	2640	1.95	-							
	456	31	3.14	2550	2.1	-							
	491	29	2.91	2500	2.3	-							
	542	26	2.64*	2430	2.6	-							
	603	24	2.37	2350	2.9	-	**RX**	**57**	**EDRE**	**90L4**	30	423
	700	20	2.04	2250	3.4	-	**RXF**	**57**	**EDRE**	**90L4**	32	424
	745	19	1.92*	2210	3.6	-							
	866	16	1.65	2120	4.2	-							
	969	15	1.48	2040	4.6	-							
	1095	13	1.30	1970	4.8	-							
2.2	**1.1**	17300	1279	120000	1.05	-							
	1.3	15100	1123	120000	1.20	-							
	1.4	13400	999	120000	1.35	-	**R**	**167R97**	**EDRE**	**100M4**	770	472
	1.6	11600	861	120000	1.55	-	**RF**	**167R97**	**EDRE**	**100M4**	770	472
	1.9	10200	760	120000	1.75	-	**RM**	**167R97**	**EDRE**	**100M4**	970	472
	2.2	8620	656	120000	2.1	-							
	2.7	7110	533	71200	1.85	-							
	3.1	6120	462	72100	2.1	-	**R**	**147R87**	**EDRE**	**100M4**	460	472
	3.3	5750	426	72400	2.3	-	**RF**	**147R87**	**EDRE**	**100M4**	470	472
	3.9	4970	368	73000	2.6	-	**RM**	**147R87**	**EDRE**	**100M4**	640	472
	4.4	4390	326	73300	3.0	-							
	1.6	12000	889	64400	1.10	-							
	1.8	10600	784	66800	1.20	-							
	2.0	9410	695	68600	1.40	-	**R**	**147R77**	**EDRE**	**100M4**	440	472
	2.3	8450	619	69800	1.55	-	**RF**	**147R77**	**EDRE**	**100M4**	450	472
	2.6	7600	558	70700	1.70	-	**RM**	**147R77**	**EDRE**	**100M4**	620	472
	2.9	6650	489	71600	1.95	-							
	2.5	7640	560	54100	1.05	-							
	2.9	6640	490	56000	1.20	-							
	3.3	5790	428	57300	1.40	-							
	3.7	5200	381	58100	1.55	-	**R**	**137R77**	**EDRE**	**100M4**	305	472
	4.4	4410	323	59100	1.80	-	**RF**	**137R77**	**EDRE**	**100M4**	330	472
	4.9	3970	291	59500	2.0	-	**RM**	**137R77**	**EDRE**	**100M4**	440	472
	5.6	3470	255	60000	2.3	-							
	6.4	3040	223	60300	2.6	-							
	5.0	3870	285	31600	1.10	-	**R**	**107R77**	**EDRE**	**100M4**	220	472
	5.6	3420	253	33400	1.25	-	**RF**	**107R77**	**EDRE**	**100M4**	225	472
	6.6	2900	214	35200	1.50	-	**RM**	**107R77**	**EDRE**	**100M4**	315	472
	6.8	2840	209	22000	1.05	-	**R**	**97R57**	**EDRE**	**100M4**	150	472
							RF	**97R57**	**EDRE**	**100M4**	165	472
							RM	**97R57**	**EDRE**	**100M4**	215	472
	5.7	3700	251.15	32300	1.15	-							
	6.2	3390	229.95	33600	1.25	-							
	7.0	2990	203.16	35000	1.45	-							
	8.3	2540	172.34	36100	1.70	-							
	9.0	2330	158.68	36400	1.85	-	**R**	**107**	**EDRE**	**100M4**	185	464
	10	2090	141.83	36700	2.1	-	**RF**	**107**	**EDRE**	**100M4**	190	465
	11	1880	127.68	36900	2.3	-	**RM**	**107**	**EDRE**	**100M4**	275	465
	12	1700	115.63	37100	2.5	-							
	14	1510	102.53	37200	2.8	-							
	15	1360	92.70	37300	3.2	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
2.2	**7.6**	2740	186.30	22700	1.10	-							
	8.4	2500	170.02	24000	1.20	-							
	9.4	2220	150.78	25400	1.35	-							
	11	1860	126.75	26900	1.60	-							
	12	1710	116.48	27300	1.75	-							
	14	1520	103.44	27600	1.95	-	**R**	**97**	**EDRE**	**100M4**	125	462
	15	1360	92.48	27800	2.2	-	**RF**	**97**	**EDRE**	**100M4**	140	463
	17	1220	83.15	28000	2.4	-	**RM**	**97**	**EDRE**	**100M4**	195	463
	20	1060	72.17	28200	2.8	-						
	22	960	65.21	27600	3.0	-						
	24	880	59.92	26900	3.2	-						
	27	780	53.21	26000	3.5	-						
	30	700	47.58	25200	3.8	-						
	14	1520	103.65	13400	1.00	-						
	15	1370	93.38	14400	1.15	-						
	17	1200	81.92	15400	1.30	-						
	20	1060	72.57	16100	1.45	-						
	22	930	63.68*	16600	1.55	-	**R**	**87**	**EDRE**	**100M4**	84	459
	24	880	60.35*	16800	1.65	-	**RF**	**87**	**EDRE**	**100M4**	91	460
	27	775	52.82	17100	1.80	-	**RM**	**87**	**EDRE**	**100M4**	120	460
	30	700	47.58	17200	1.90	-						
	34	615	41.74	17300	2.1	-						
	39	540	36.84*	17300	2.3	-						
	44	480	32.66*	17200	2.5	-						
	41	505	34.40*	17200	2.7	-						
	45	460	31.40	17100	2.8	-	**R**	**87**	**EDRE**	**100M4**	82	459
	51	410	27.84*	17000	3.1	-	**RF**	**87**	**EDRE**	**100M4**	89	460
	61	345	23.40	16600	3.5	-	**RM**	**87**	**EDRE**	**100M4**	120	460
	66	315	21.51	16300	3.8	-						
	31	675	45.81	10900	1.05	-						
	33	635	43.26	11000	1.10	-						
	39	540	36.83	11400	1.25	-	**R**	**77**	**EDRE**	**100M4**	57	456
	43	490	33.47	11600	1.35	-	**RF**	**77**	**EDRE**	**100M4**	63	457
	49	425	29.00	11700	1.45	-	**RM**	**77**	**EDRE**	**100M4**	88	457
	56	370	25.23	11600	1.65	-						
	61	340	23.37	11400	1.80	-						
	66	315	21.43	11100	1.95	-						
	76	275	18.80	10700	2.1	-	**R**	**77**	**EDRE**	**100M4**	56	456
	80	260	17.82*	10600	2.2	-	**RF**	**77**	**EDRE**	**100M4**	62	457
	91	225	15.60	10200	2.4	-	**RM**	**77**	**EDRE**	**100M4**	87	457
	101	205	14.05	9880	2.6	-						
	61	345	23.44	9110	1.45	-						
	72	290	19.89	8740	1.60	-						
	79	260	17.95	8510	1.75	-						
	90	230	15.79	8220	1.95	-						
	96	215	14.91	8090	2.0	-	**R**	**67**	**EDRE**	**100M4**	50	453
	112	187	12.70	7740	2.3	-	**RF**	**67**	**EDRE**	**100M4**	53	454
	123	170	11.54	7530	2.5	-	**RM**	**67**	**EDRE**	**100M4**	69	454
	143	147	10.00	7230	2.8	-						
	164	128	8.70*	6940	3.0	-						
	183	115	7.79	6730	2.5	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
2.2	**65**	320	21.93	4770	1.25	-							
	77	270	18.60*	4650	1.45	-							
	85	245	16.79	4560	1.55	-							
	96	215	14.77*	4440	1.70	-							
	102	205	13.95*	4380	1.80	-	**R**	**57**	**EDRE**	**100M4**	43	450
	120	175	11.88	4220	2.1	-	**RF**	**57**	**EDRE**	**100M4**	47	451
	132	159	10.79	4130	2.2	-	**RM**	**57**	**EDRE**	**100M4**	59	451
	152	138	9.35	3980	2.5	-							
	157	134	9.06	3970	2.4	-							
	179	118	7.97	3840	2.6	-							
	98	210	14.56	2470	1.00	-							
	114	185	12.54	2830	1.15	-							
	121	174	11.79	2950	1.20	-							
	140	150	10.15	3160	1.35	-							
	157	134	9.07	3080	1.50	-							
	178	118	8.01	2990	1.65	-							
	184	114	7.76*	2900	1.40	-	**R**	**47**	**EDRE**	**100M4**	38	447
	205	103	6.96	2830	1.50	-	**RF**	**47**	**EDRE**	**100M4**	39	448
	238	88	6.00	2730	1.70	-							
	253	83	5.64*	2690	1.80	-							
	294	72	4.85	2590	2.0	-							
	329	64	4.34	2520	2.2	-							
	372	56	3.83	2440	2.4	-							
	179	118	7.97	1510	1.10	-							
	214	98	6.67	1300	1.10	-							
	252	84	5.67	1550	1.20	-							
	282	75	5.06	1680	1.35	-	**R**	**37**	**EDRE**	**100M4**	35	444
	330	64	4.32	1830	1.50	-	**RF**	**37**	**EDRE**	**100M4**	36	445
	352	60	4.05	1880	1.55	-							
	418	50	3.41	1980	1.75	-							
	334	63	4.27	920	1.10	-							
	356	59	4.00*	980	1.15	-	**R**	**27**	**EDRE**	**100M4**	29	441
	423	50	3.37	1130	1.35	-	**RF**	**27**	**EDRE**	**100M4**	29	442
	301	70	4.73	5160	1.75	-							
	353	60	4.04*	4930	2.4	-							
	385	55	3.70	4810	2.8	-							
	438	48	3.25*	4620	3.8	-							
	463	45	3.08*	4550	4.2	-							
	529	40	2.70	4370	5.4	-	**RX**	**77**	**EDRE**	**100M4**	47	427
	587	36	2.43	4230	5.7	-	**RXF**	**77**	**EDRE**	**100M4**	50	428
	669	31	2.13	4060	6.3	-							
	758	28	1.88*	3910	6.8	-							
	855	25	1.67	3760	7.0	-							
	1000	21	1.42	3580	7.4	-							
	378	56	3.77	3270	1.55	-							
	445	47	3.20*	3120	2.1	-							
	493	43	2.89	3040	2.5	-							
	561	38	2.54	2930	3.2	-							
	594	35	2.40*	2880	3.5	-	**RX**	**67**	**EDRE**	**100M4**	37	425
	697	30	2.04	2750	4.2	-	**RXF**	**67**	**EDRE**	**100M4**	41	426
	767	27	1.86	2670	4.5	-							
	886	24	1.61	2560	4.8	-							
	1020	21	1.40*	2450	5.0	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
2.2	**454**	46	3.14	2270	1.40	-							
	540	39	2.64*	2320	1.75	-							
	601	35	2.37	2270	2.00	-							
	698	30	2.04	2180	2.3	-	**RX**	**57**	**EDRE**	**100M4**	35	423
	742	28	1.92*	2140	2.4	-	**RXF**	**57**	**EDRE**	**100M4**	37	424
	862	24	1.65	2060	2.8	-							
	965	22	1.48	1990	3.1	-							
	1090	19	1.30	1920	3.3	-							
3.0	**1.7**	15600	861	120000	1.15	-							
	1.9	13800	760	120000	1.30	-	**R**	**167R97**	**EDRE**	**100LC4**	770	472
	2.2	11600	656	120000	1.55	-	**RF**	**167R97**	**EDRE**	**100LC4**	780	472
	2.9	8950	503	120000	2.0	-	**RM**	**167R97**	**EDRE**	**100LC4**	970	472
	2.7	9590	533	68300	1.35	-							
	3.2	8270	462	70000	1.55	-							
	3.4	7740	426	70600	1.70	-	**R**	**147R87**	**EDRE**	**100LC4**	465	472
	4.0	6680	368	71600	1.95	-	**RF**	**147R87**	**EDRE**	**100LC4**	475	472
	4.5	5910	326	72300	2.2	-	**RM**	**147R87**	**EDRE**	**100LC4**	640	472
	5.2	5010	280	72900	2.6	-							
	2.1	12600	695	63300	1.05	-	**R**	**147R77**	**EDRE**	**100LC4**	445	472
	2.4	11300	619	65700	1.15	-	**RF**	**147R77**	**EDRE**	**100LC4**	455	472
	2.6	10200	558	67500	1.25	-	**RM**	**147R77**	**EDRE**	**100LC4**	620	472
	3.4	7790	428	53800	1.05	-							
	3.8	6980	381	55400	1.15	-							
	4.5	5920	323	57200	1.35	-	**R**	**137R77**	**EDRE**	**100LC4**	310	472
	5.0	5330	291	58000	1.50	-	**RF**	**137R77**	**EDRE**	**100LC4**	335	472
	5.7	4650	255	58800	1.70	-	**RM**	**137R77**	**EDRE**	**100LC4**	445	472
	6.5	4080	223	59400	1.95	-							
	6.8	3900	214	31500	1.10	-	**R**	**107R77**	**EDRE**	**100LC4**	225	472
	7.8	3400	187	33500	1.25	-	**RF**	**107R77**	**EDRE**	**100LC4**	230	472
							RM	**107R77**	**EDRE**	**100LC4**	320	472
	7.2	4000	203.16	31000	1.10	-							
	8.4	3390	172.34	33600	1.25	-							
	9.2	3120	158.68	34500	1.40	-							
	10	2790	141.83	35600	1.55	-							
	11	2510	127.68	36200	1.70	-	**R**	**107**	**EDRE**	**100LC4**	190	464
	13	2270	115.63	36500	1.90	-	**RF**	**107**	**EDRE**	**100LC4**	195	465
	14	2010	102.53	36800	2.1	-	**RM**	**107**	**EDRE**	**100LC4**	280	465
	16	1820	92.70	37000	2.4	-							
	19	1540	78.57	35500	2.8	-							
	20	1430	72.88	34800	3.0	-							
	9.6	2960	150.78	18500	1.00	-							
	11	2490	126.75	21100	1.20	-							
	12	2290	116.48	22100	1.30	-							
	14	2030	103.44	23200	1.45	-							
	16	1820	92.48	24000	1.65	-							
	18	1630	83.15	24600	1.85	-							
	20	1420	72.17	25100	2.1	-	**R**	**97**	**EDRE**	**100LC4**	130	462
	22	1280	65.21	25400	2.2	-	**RF**	**97**	**EDRE**	**100LC4**	145	463
	24	1170	59.92	25500	2.4	-	**RM**	**97**	**EDRE**	**100LC4**	200	463
	27	1040	53.21	25300	2.6	-							
	31	930	47.58	24500	2.9	-							
	34	840	42.78	23800	3.1	-							
	39	730	37.13	22800	3.5	-							
	44	650	33.25	22100	3.8	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
3.0	**20**	1420	72.57	10700	1.10	-							
	23	1250	63.68*	11900	1.15	-							
	24	1180	60.35*	12300	1.20	-							
	28	1030	52.82	13100	1.35	-	**R**	**87**	**EDRE**	**100LC4**	89	459
	31	930	47.58	13700	1.45	-	**RF**	**87**	**EDRE**	**100LC4**	96	460
	35	820	41.74	14200	1.60	-	**RM**	**87**	**EDRE**	**100LC4**	125	460
	40	725	36.84*	14500	1.70	-						
	45	640	32.66*	14700	1.90	-						
	52	545	27.88	14800	2.1	-						
	42	675	34.40*	14600	2.00	-						
	46	615	31.40	14700	2.1	-						
	52	545	27.84*	14800	2.3	-						
	62	460	23.40	14800	2.6	-	**R**	**87**	**EDRE**	**100LC4**	87	459
	68	420	21.51	14700	2.8	-	**RF**	**87**	**EDRE**	**100LC4**	94	460
	76	375	19.10	14600	3.1	-	**RM**	**87**	**EDRE**	**100LC4**	125	460
	85	335	17.08*	14500	3.4	-						
	95	300	15.35	14300	3.7	-						
	43	655	33.47	8850	1.00	-	**R**	**77**	**EDRE**	**100LC4**	62	456
	50	570	29.00	9340	1.10	-	**RF**	**77**	**EDRE**	**100LC4**	68	457
	58	495	25.23	9670	1.20	-	**RM**	**77**	**EDRE**	**100LC4**	93	457
	62	460	23.37	9800	1.35	-						
	68	420	21.43	9910	1.45	-						
	77	370	18.80	10000	1.60	-						
	82	350	17.82*	10000	1.65	-						
	93	305	15.60	9880	1.80	-						
	104	275	14.05	9600	2.00	-	**R**	**77**	**EDRE**	**100LC4**	61	456
	118	240	12.33	9250	2.2	-	**RF**	**77**	**EDRE**	**100LC4**	67	457
	134	210	10.88	8930	2.5	-	**RM**	**77**	**EDRE**	**100LC4**	92	457
	151	190	9.64	8630	2.8	-						
	169	169	8.59	8400	2.9	-						
	188	152	7.74	8150	3.2	-						
	214	134	6.79	7830	3.6	-						
	62	460	23.44	7140	1.10	-						
	73	390	19.89	7660	1.20	-						
	81	350	17.95	7890	1.30	-						
	92	310	15.79	7900	1.45	-	**R**	**67**	**EDRE**	**100LC4**	55	453
	98	290	14.91	7790	1.50	-	**RF**	**67**	**EDRE**	**100LC4**	58	454
	115	250	12.70	7470	1.75	-	**RM**	**67**	**EDRE**	**100LC4**	74	454
	126	225	11.54	7290	1.90	-						
	146	197	10.00	7010	2.1	-						
	78	365	18.60*	3300	1.10	-						
	87	330	16.79	3630	1.15	-						
	98	290	14.77*	3970	1.25	-						
	104	270	13.95*	4100	1.35	-						
	122	230	11.88	3980	1.55	-						
	135	210	10.79	3900	1.65	-						
	156	184	9.35	3790	1.90	-	**R**	**57**	**EDRE**	**100LC4**	48	450
	161	178	9.06	3780	1.75	-	**RF**	**57**	**EDRE**	**100LC4**	52	451
	183	157	7.97	3670	1.90	-	**RM**	**57**	**EDRE**	**100LC4**	64	451
	193	148	7.53	3620	2.00	-						
	227	126	6.41	3480	2.2	-						
	250	115	5.82	3400	2.3	-						
	288	99	5.05	3280	2.6	-						
	331	86	4.39	3160	2.8	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
3.0	**143**	200	10.15	1910	1.05	-							
	160	178	9.07	2180	1.10	-							
	182	158	8.01	2430	1.25	-							
	188	153	7.76*	2040	1.05	-							
	209	137	6.96	2250	1.15	-	**R**	**47**	**EDRE**	**100LC4**	43	447
	243	118	6.00	2480	1.30	-	**RF**	**47**	**EDRE**	**100LC4**	44	448
	258	111	5.64*	2560	1.35	-							
	300	96	4.85	2470	1.50	-							
	336	85	4.34	2410	1.65	-							
	380	75	3.83	2340	1.80	-							
	337	85	4.32	1100	1.10	-							
	360	80	4.05	1190	1.15	-	**R**	**37**	**EDRE**	**100LC4**	40	444
	427	67	3.41	1390	1.30	-	**RF**	**37**	**EDRE**	**100LC4**	41	445
	432	66	3.37	555	1.00	-	**R**	**27**	**EDRE**	**100LC4**	34	441
							RF	**27**	**EDRE**	**100LC4**	34	442
	225	127	6.45	7050	1.50	-							
	262	110	5.56*	6760	2.0	-							
	287	100	5.07	6580	2.5	-	**RX**	**87**	**EDRE**	**100LC4**	69	429
	323	89	4.50*	6350	3.3	-	**RXF**	**87**	**EDRE**	**100LC4**	74	430
	385	74	3.78	6040	4.1	-							
	308	93	4.73	5000	1.30	-							
	360	80	4.04*	4780	1.80	-							
	393	73	3.70	4670	2.1	-	**RX**	**77**	**EDRE**	**100LC4**	52	427
	448	64	3.25*	4500	2.8	-	**RXF**	**77**	**EDRE**	**100LC4**	55	428
	472	61	3.08*	4430	3.2	-							
	386	74	3.77	3120	1.15	-							
	455	63	3.20*	3000	1.60	-							
	504	57	2.89	2920	1.85	-							
	572	50	2.54	2820	2.4	-							
	606	47	2.40*	2780	2.6	-	**RX**	**67**	**EDRE**	**100LC4**	42	425
	712	40	2.04	2660	3.2	-	**RXF**	**67**	**EDRE**	**100LC4**	46	426
	783	37	1.86	2590	3.4	-							
	904	32	1.61	2480	3.6	-							
	1040	28	1.40*	2380	3.8	-							
	464	62	3.14	1380	1.05	-							
	551	52	2.64*	1540	1.35	-							
	614	47	2.37	1610	1.50	-							
	713	40	2.04	1690	1.70	-	**RX**	**57**	**EDRE**	**100LC4**	40	423
	758	38	1.92*	1710	1.85	-	**RXF**	**57**	**EDRE**	**100LC4**	42	424
	881	32	1.65	1740	2.1	-							
	986	29	1.48	1740	2.3	-							
	1115	26	1.30	1770	2.4	-							
4.0	**2.2**	15600	656	120000	1.15	-							
	2.9	12000	503	120000	1.50	-	**R**	**167R97**	**EDRE**	**132S4**	790	472
	3.9	8990	376	120000	2.0	-	**RF**	**167R97**	**EDRE**	**132S4**	790	472
	4.4	8000	335	120000	2.2	-	**RM**	**167R97**	**EDRE**	**132S4**	990	472
	2.7	12800	533	63000	1.00	-							
	3.2	11000	462	66100	1.15	-							
	3.4	10300	426	67300	1.25	-							
	4.0	8930	368	69200	1.45	-							
	4.5	7890	326	70400	1.65	-	**R**	**147R87**	**EDRE**	**132S4**	480	472
	5.2	6720	280	71600	1.95	-	**RF**	**147R87**	**EDRE**	**132S4**	485	472
	5.9	5930	247	72300	2.2	-	**RM**	**147R87**	**EDRE**	**132S4**	650	472
	6.8	5120	214	72900	2.5	-							
	7.7	4530	189	73200	2.9	-							
	9.2	3810	159	73600	3.4	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
4.0	**3.0**	11900	489	64700	1.10	-		**R**	**147R77**	**EDRE**	**132S4**	460	472
	3.5	10100	415	67600	1.30	-		**RF**	**147R77**	**EDRE**	**132S4**	465	472
								RM	**147R77**	**EDRE**	**132S4**	630	472
	4.5	7890	323	53600	1.00	-							
	5.0	7100	291	55200	1.15	-		**R**	**137R77**	**EDRE**	**132S4**	325	472
	5.7	6210	255	56700	1.30	-		**RF**	**137R77**	**EDRE**	**132S4**	350	472
	6.5	5440	223	57800	1.45	-		**RM**	**137R77**	**EDRE**	**132S4**	460	472
	4.9	7320	297	54800	1.10	-		**R**	**137R77**	**EDRE**	**132S4**	315	472
								RF	**137R77**	**EDRE**	**132S4**	340	472
								RM	**137R77**	**EDRE**	**132S4**	450	472
	8.5	4250	172	29700	1.00	-		**R**	**107R77**	**EDRE**	**132S4**	235	472
								RF	**107R77**	**EDRE**	**132S4**	240	472
								RM	**107R77**	**EDRE**	**132S4**	325	472
	9.2	4150	158.68	30200	1.05	-							
	10	3710	141.83	32300	1.15	-							
	11	3340	127.68	33800	1.30	-							
	13	3020	115.63	34900	1.40	-							
	14	2680	102.53	35900	1.60	-		**R**	**107**	**EDRE**	**132S4**	200	464
	16	2420	92.70	36200	1.75	-		**RF**	**107**	**EDRE**	**132S4**	205	465
	19	2050	78.57	34600	2.1	-		**RM**	**107**	**EDRE**	**132S4**	295	465
	20	1900	72.88	34000	2.3	-							
	22	1710	65.60*	33000	2.5	-							
	25	1550	59.41	32100	2.8	-							
	28	1370	52.68	31000	3.1	-							
	14	2700	103.44	15200	1.10	-							
	16	2410	92.48	16900	1.25	-							
	18	2170	83.15	18200	1.40	-							
	20	1880	72.17	19600	1.60	-							
	22	1700	65.21	20300	1.70	-		**R**	**97**	**EDRE**	**132S4**	145	462
	24	1560	59.92	20800	1.80	-		**RF**	**97**	**EDRE**	**132S4**	160	463
	27	1390	53.21	21400	1.95	-		**RM**	**97**	**EDRE**	**132S4**	210	463
	31	1240	47.58	21700	2.2	-							
	34	1110	42.78	21900	2.4	-							
	39	970	37.13	22100	2.6	-							
	44	860	33.25	21600	2.9	-							
	46	830	32.05	21400	2.8	-							
	54	710	27.19	20500	3.1	-		**R**	**97**	**EDRE**	**132S4**	140	462
	58	650	25.03	20000	3.3	-		**RF**	**97**	**EDRE**	**132S4**	155	463
	65	585	22.37	19300	3.6	-		**RM**	**97**	**EDRE**	**132S4**	210	463
	72	525	20.14	18700	3.9	-							
	28	1380	52.82	8160	1.00	-							
	31	1240	47.58	9180	1.10	-							
	35	1090	41.74	10200	1.20	-		**R**	**87**	**EDRE**	**132S4**	100	459
	40	960	36.84*	11000	1.30	-		**RF**	**87**	**EDRE**	**132S4**	110	460
	45	850	32.66*	11600	1.40	-		**RM**	**87**	**EDRE**	**132S4**	140	460
	52	725	27.88	12200	1.60	-							
	42	900	34.40*	11400	1.50	-							
	46	820	31.40	11800	1.60	-							
	52	725	27.84*	12200	1.75	-							
	62	610	23.40	12600	2.00	-							
	68	560	21.51	12700	2.1	-		**R**	**87**	**EDRE**	**132S4**	100	459
	76	495	19.10	12800	2.3	-		**RF**	**87**	**EDRE**	**132S4**	110	460
	85	445	17.08*	12800	2.6	-		**RM**	**87**	**EDRE**	**132S4**	140	460
	95	400	15.35	12800	2.8	-							
	110	345	13.33	12700	3.2	-							
	122	310	11.93	12600	3.5	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
4.0	**62**	610	23.37	7420	1.00	-							
	68	560	21.43	7730	1.10	-							
	78	490	18.80	8100	1.20	-							
	82	465	17.82*	8220	1.25	-							
	94	405	15.60	8460	1.35	-							
	104	365	14.05	8580	1.50	-							
	118	320	12.33	8670	1.70	-	**R**	**77**	**EDRE**	**132S4**	74	456
	134	280	10.88	8710	1.90	-	**RF**	**77**	**EDRE**	**132S4**	80	457
	151	250	9.64	8430	2.1	-	**RM**	**77**	**EDRE**	**132S4**	105	457
	170	220	8.59	8080	2.2	-							
	189	200	7.74	8010	2.4	-							
	215	178	6.79	7710	2.7	-							
	244	157	5.99*	7430	3.0	-							
	275	139	5.31*	7160	3.2	-							
	92	410	15.79	6080	1.10	-							
	98	390	14.91	6260	1.15	-							
	115	330	12.70	6680	1.30	-							
	127	300	11.54	6860	1.40	-							
	146	260	10.00	6790	1.55	-							
	168	225	8.70*	6560	1.70	-	**R**	**67**	**EDRE**	**132S4**	110	453
	187	200	7.79	6390	1.40	-	**RF**	**67**	**EDRE**	**132S4**	110	454
	198	193	7.36*	6300	1.50	-	**RM**	**67**	**EDRE**	**132S4**	125	454
	233	164	6.27	6030	1.60	-							
	256	149	5.70	5870	1.75	-							
	296	129	4.93	5640	1.90	-							
	340	112	4.29	5420	2.1	-							
	105	365	13.95*	2370	1.00	-							
	123	310	11.88	2920	1.15	-							
	135	280	10.79	3180	1.25	-							
	156	240	9.35	3500	1.45	-							
	161	235	9.06	2820	1.35	-	**R**	**57**	**EDRE**	**132S4**	100	450
	183	205	7.97	3120	1.45	-	**RF**	**57**	**EDRE**	**132S4**	105	451
	194	197	7.53	3230	1.50	-	**RM**	**57**	**EDRE**	**132S4**	115	451
	228	168	6.41	3330	1.65	-							
	251	152	5.82	3260	1.75	-							
	289	132	5.05	3160	1.95	-							
	333	115	4.39	3050	2.1	-							
	259	148	5.64*	1550	1.00	-							
	301	127	4.85	1840	1.15	-	**R**	**47**	**EDRE**	**132S4**	97	447
	337	113	4.34	2020	1.25	-	**RF**	**47**	**EDRE**	**132S4**	97	448
	381	100	3.83	2170	1.35	-							
	263	146	5.56*	6580	1.55	-							
	288	133	5.07	6420	1.90	-	**RX**	**87**	**EDRE**	**132S4**	82	429
	324	118	4.50*	6210	2.5	-	**RXF**	**87**	**EDRE**	**132S4**	87	430
	386	99	3.78	5910	3.1	-							
	361	106	4.04*	4510	1.35	-							
	394	97	3.70	4530	1.60	-							
	449	85	3.25*	4380	2.1	-							
	474	81	3.08*	4310	2.4	-							
	542	70	2.70	4160	3.0	-	**RX**	**77**	**EDRE**	**132S4**	66	427
	601	64	2.43	4040	3.2	-	**RXF**	**77**	**EDRE**	**132S4**	68	428
	685	56	2.13	3890	3.6	-							
	777	49	1.88*	3750	3.8	-							
	876	44	1.67	3620	4.0	-							
	1025	37	1.42	3450	4.2	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
4.0	**456**	84	3.20*	2630	1.20	-							
	505	76	2.89	2710	1.40	-							
	574	66	2.54	2710	1.75	-							
	608	63	2.40*	2670	1.95	-	**RX**	**67**	**EDRE**	**132S4**		96	425
	714	54	2.04	2560	2.4	-	**RXF**	**67**	**EDRE**	**132S4**		100	426
	786	49	1.86	2500	2.5	-							
	908	42	1.61	2400	2.7	-							
	1045	37	1.40*	2310	2.8	-							
	553	69	2.64*	555	1.00	-							
	616	62	2.37	705	1.10	-							
	715	53	2.04	870	1.30	-							
	760	50	1.92*	930	1.35	-	**RX**	**57**	**EDRE**	**132S4**		93	423
	884	43	1.65	1040	1.60	-	**RXF**	**57**	**EDRE**	**132S4**		95	424
	989	39	1.48	1080	1.75	-							
	1120	34	1.30	1170	1.85	-							
5.5	**2.9**	16700	503	120000	1.10	-							
	3.4	14200	432	120000	1.25	-							
	3.9	12500	376	120000	1.45	-	**R**	**167R97**	**EDRE**	**132M4**		800	472
	4.3	11100	335	120000	1.60	-	**RF**	**167R97**	**EDRE**	**132M4**		800	472
	4.8	9970	303	120000	1.80	-	**RM**	**167R97**	**EDRE**	**132M4**		1000	472
	5.2	9190	279	120000	1.95	-							
	4.0	12300	368	63900	1.05	-							
	4.5	10900	326	66400	1.20	-							
	5.2	9340	280	68700	1.40	-	**R**	**147R87**	**EDRE**	**132M4**		490	472
	5.9	8240	247	70000	1.60	-	**RF**	**147R87**	**EDRE**	**132M4**		500	472
	6.8	7120	214	71200	1.80	-	**RM**	**147R87**	**EDRE**	**132M4**		670	472
	7.7	6300	189	72000	2.1	-							
	6.5	8030	222.60*	53300	1.00	-							
	7.7	6800	188.45	55700	1.20	-							
	8.3	6290	174.40*	56600	1.25	-							
	9.3	5640	156.31	57600	1.40	-							
	10	5090	141.12*	58300	1.55	-							
	11	4620	128.18	58800	1.75	-							
	13	4100	113.72	59400	1.95	-	**R**	**137**	**EDRE**	**132M4**		300	466
	14	3720	103.20*	59800	2.2	-	**RF**	**137**	**EDRE**	**132M4**		320	467
	16	3200	88.70*	60200	2.5	-	**RM**	**137**	**EDRE**	**132M4**		435	467
	18	2920	80.91*	60400	2.7	-							
	20	2650	73.49	60600	3.0	-							
	22	2350	65.20	60800	3.4	-							
	25	2130	59.17*	60900	3.8	-							
	29	1830	50.86*	61000	4.2	-							
	13	4170	115.63	30100	1.05	-							
	14	3700	102.53	32300	1.15	-							
	16	3340	92.70	33800	1.30	-							
	19	2830	78.57	33400	1.50	-							
	20	2630	72.88	32800	1.65	-	**R**	**107**	**EDRE**	**132M4**		210	464
	22	2360	65.60*	31900	1.80	-	**RF**	**107**	**EDRE**	**132M4**		220	465
	24	2140	59.41	31200	2.0	-	**RM**	**107**	**EDRE**	**132M4**		305	465
	28	1900	52.68	30200	2.3	-							
	31	1710	47.63	29400	2.5	-							
	36	1450	40.37*	28100	3.0	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
5.5	**18**	3000	83.15	8470	1.00	-							
	20	2600	72.17	11100	1.15	-							
	22	2350	65.21	24600	1.20	-							
	24	2160	59.92	24200	1.30	-							
	27	1920	53.21	23500	1.40	-	**R**	**97**	**EDRE**	**132M4**	155	462
	31	1710	47.58	22900	1.55	-	**RF**	**97**	**EDRE**	**132M4**	170	463
	34	1540	42.78	22400	1.70	-	**RM**	**97**	**EDRE**	**132M4**	225	463
	39	1340	37.13	21600	1.90	-						
	44	1200	33.25	18200	2.1	-						
	53	990	27.58	18700	2.4	-						
	45	1150	32.05	18300	2.0	-						
	54	980	27.19	18700	2.3	-						
	58	900	25.03	18800	2.4	-	**R**	**97**	**EDRE**	**132M4**	150	462
	65	800	22.37	18800	2.6	-	**RF**	**97**	**EDRE**	**132M4**	170	463
	72	725	20.14	18400	2.8	-	**RM**	**97**	**EDRE**	**132M4**	220	463
	80	655	18.24	17900	3.1	-						
	90	580	16.17	17300	3.4	-						
	45	1170	32.66*	16700	1.05	-	**R**	**87**	**EDRE**	**132M4**	115	459
	52	1000	27.88	16100	1.15	-	**RF**	**87**	**EDRE**	**132M4**	120	460
							RM	**87**	**EDRE**	**132M4**	150	460
	52	1000	27.84*	16100	1.25	-						
	62	840	23.40	15400	1.45	-						
	68	775	21.51	15100	1.55	-						
	76	685	19.10	14600	1.70	-						
	85	615	17.08*	14200	1.85	-						
	95	550	15.35	10600	2.0	-	**R**	**87**	**EDRE**	**132M4**	115	459
	109	480	13.33	10800	2.3	-	**RF**	**87**	**EDRE**	**132M4**	120	460
	122	430	11.93	10900	2.5	-	**RM**	**87**	**EDRE**	**132M4**	150	460
	147	355	9.90*	10900	3.0	-						
	159	330	9.14*	10300	3.0	-						
	177	295	8.22	10300	3.2	-						
	204	255	7.13	10200	3.5	-						
	104	505	14.05	6420	1.10	-						
	118	440	12.33	6780	1.20	-						
	134	390	10.88	7030	1.40	-						
	151	345	9.64	7210	1.55	-	**R**	**77**	**EDRE**	**132M4**	86	456
	169	310	8.59	6550	1.60	-	**RF**	**77**	**EDRE**	**132M4**	92	457
	188	275	7.74	6690	1.75	-	**RM**	**77**	**EDRE**	**132M4**	115	457
	214	245	6.79	6810	2.00	-						
	243	215	5.99*	6870	2.2	-						
	274	192	5.31*	6890	2.4	-						
	126	415	11.54	4610	1.05	-						
	146	360	10.00	5110	1.15	-						
	167	310	8.70*	5480	1.25	-						
	187	280	7.79	4940	1.05	-	**R**	**67**	**EDRE**	**132M4**	120	453
	198	265	7.36*	5080	1.05	-	**RF**	**67**	**EDRE**	**132M4**	125	454
	232	225	6.27	5390	1.15	-	**RM**	**67**	**EDRE**	**132M4**	140	454
	255	205	5.70	5520	1.25	-						
	295	178	4.93	5490	1.40	-						
	339	155	4.29	5290	1.50	-						
	156	335	9.35	1740	1.05	-						
	183	285	7.97	1370	1.05	-						
	193	270	7.53	1580	1.10	-	**R**	**57**	**EDRE**	**132M4**	115	450
	227	230	6.41	2080	1.20	-	**RF**	**57**	**EDRE**	**132M4**	115	451
	250	210	5.82	2320	1.25	-	**RM**	**57**	**EDRE**	**132M4**	130	451
	288	182	5.05	2620	1.40	-						
	331	158	4.39	2840	1.50	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
5.5	**220**	235	6.63*	10400	1.90	-							
	259	200	5.61	9930	2.2	-	**RX**	**107**	**EDRE**	**132M4**	150	433
	280	187	5.19	9710	3.7	-	**RXF**	**107**	**EDRE**	**132M4**	165	434
	313	168	4.65	9410	4.1	-						
	251	205	5.79	8340	2.0	-						
	296	177	4.91	7970	2.2	-						
	322	163	4.52	7790	3.6	-						
	360	146	4.04	7540	4.1	-						
	400	131	3.64*	7320	4.5	-						
	441	119	3.30	7110	5.0	-	**RX**	**97**	**EDRE**	**132M4**	120	431
	498	106	2.92	6860	5.6	-	**RXF**	**97**	**EDRE**	**132M4**	125	432
	551	95	2.64	6660	6.2	-						
	650	81	2.24*	6330	7.4	-						
	744	71	1.96	6080	8.1	-						
	889	59	1.64	5750	8.5	-						
	1025	51	1.42	5500	8.9	-						
	323	162	4.50*	6010	1.80	-						
	385	136	3.78	5740	2.2	-						
	419	126	3.48	5610	3.2	-						
	471	111	3.09	5430	3.6	-	**RX**	**87**	**EDRE**	**132M4**	94	429
	527	100	2.76*	5260	4.1	-	**RXF**	**87**	**EDRE**	**132M4**	99	430
	586	90	2.48	5110	4.5	-						
	676	78	2.15	4900	4.8	-						
	448	117	3.25*	3410	1.55	-						
	472	111	3.08*	3460	1.75	-						
	540	97	2.70	3530	2.2	-						
	599	88	2.43	3520	2.3	-	**RX**	**77**	**EDRE**	**132M4**	78	427
	683	77	2.13	3540	2.6	-	**RXF**	**77**	**EDRE**	**132M4**	80	428
	774	68	1.88*	3530	2.8	-						
	873	60	1.67	3500	2.9	-						
	1020	51	1.42	3370	3.0	-						
	572	92	2.54	1600	1.30	-						
	606	87	2.40*	1670	1.40	-						
	712	74	2.04	1790	1.75	-	**RX**	**67**	**EDRE**	**132M4**	110	425
	783	67	1.86	1860	1.85	-	**RXF**	**67**	**EDRE**	**132M4**	110	426
	904	58	1.61	1940	1.95	-						
	1040	50	1.40*	1980	2.1	-						
	986	53	1.48	87	1.30	-	**RX**	**57**	**EDRE**	**132M4**	105	423
	1115	47	1.30	265	1.35	-	**RXF**	**57**	**EDRE**	**132M4**	105	424
7.5	**3.9**	17100	376	120000	1.05	-							
	4.4	15200	335	120000	1.20	-	**R**	**167R97**	**EDRE**	**160S4**	810	472
	4.8	13600	303	120000	1.30	-	**RF**	**167R97**	**EDRE**	**160S4**	820	472
	5.2	12500	279	120000	1.45	-	**RM**	**167R97**	**EDRE**	**160S4**	1020	472
	5.2	12700	280	63100	1.00	-						
	5.9	11200	247	65800	1.15	-	**R**	**147R87**	**EDRE**	**160S4**	510	472
	6.8	9720	214	68200	1.35	-	**RF**	**147R87**	**EDRE**	**160S4**	510	472
	7.7	8600	189	69600	1.50	-	**RM**	**147R87**	**EDRE**	**160S4**	680	472
	9.2	7230	159	71100	1.80	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
7.5	**9.3**	7660	156.31	54100	1.05	-							
	10	6920	141.12*	55500	1.15	-							
	11	6280	128.18	56600	1.25	-							
	13	5570	113.72	57600	1.45	-							
	14	5060	103.20*	58300	1.60	-	**R**	**137**	**EDRE**	**160S4**	310	466
	16	4350	88.70*	59100	1.85	-	**RF**	**137**	**EDRE**	**160S4**	335	467
	18	3960	80.91*	59500	2.0	-	**RM**	**137**	**EDRE**	**160S4**	445	467
	20	3600	73.49	59900	2.2	-						
	22	3190	65.20	60200	2.5	-						
	25	2900	59.17*	60400	2.8	-						
	29	2490	50.86*	60700	3.1	-						
	19	3850	78.57	31700	1.10	-						
	20	3570	72.88	31200	1.20	-						
	22	3210	65.60*	30500	1.35	-						
	25	2910	59.41	29800	1.50	-	**R**	**107**	**EDRE**	**160S4**	230	464
	28	2580	52.68	29000	1.65	-	**RF**	**107**	**EDRE**	**160S4**	235	465
	31	2330	47.63	28300	1.85	-	**RM**	**107**	**EDRE**	**160S4**	320	465
	36	1980	40.37*	27200	2.2	-						
	41	1720	35.26	26300	2.4	-						
	50	1440	29.49	25100	2.7	-						
	47	1500	30.77	25300	2.8	-						
	53	1350	27.58	24600	3.2	-	**R**	**107**	**EDRE**	**160S4**	220	464
	59	1220	24.90*	23900	3.5	-	**RF**	**107**	**EDRE**	**160S4**	230	465
	65	1100	22.62	23300	3.9	-	**RM**	**107**	**EDRE**	**160S4**	315	465
	27	2610	53.21	22100	1.05	-						
	31	2330	47.58	21700	1.15	-						
	34	2090	42.78	21200	1.25	-	**R**	**97**	**EDRE**	**160S4**	170	462
	39	1820	37.13	20600	1.40	-	**RF**	**97**	**EDRE**	**160S4**	190	463
	44	1630	33.25	13100	1.55	-	**RM**	**97**	**EDRE**	**160S4**	240	463
	53	1350	27.58	14400	1.75	-						
	46	1570	32.05	13400	1.50	-						
	54	1330	27.19	14500	1.65	-						
	58	1220	25.03	14900	1.80	-	**R**	**97**	**EDRE**	**160S4**	170	462
	65	1090	22.37	15400	1.95	-	**RF**	**97**	**EDRE**	**160S4**	185	463
	72	980	20.14	15700	2.1	-	**RM**	**97**	**EDRE**	**160S4**	235	463
	80	890	18.24	15900	2.3	-						
	62	1140	23.40	14700	1.05	-						
	68	1050	21.51	14400	1.15	-						
	76	930	19.10	14000	1.25	-						
	85	830	17.08*	13700	1.35	-						
	95	750	15.35	7750	1.50	-						
	110	650	13.33	8330	1.70	-	**R**	**87**	**EDRE**	**160S4**	130	459
	122	585	11.93	8670	1.85	-	**RF**	**87**	**EDRE**	**160S4**	135	460
	147	485	9.90*	9080	2.2	-	**RM**	**87**	**EDRE**	**160S4**	165	460
	160	445	9.14*	8290	2.2	-						
	178	400	8.22	8480	2.4	-						
	205	350	7.13	8660	2.6	-						
	229	310	6.39	8750	2.8	-						
	275	260	5.30*	8780	3.2	-						
	134	530	10.88	4820	1.00	-						
	151	470	9.64	5240	1.15	-						
	170	420	8.59	4520	1.15	-	**R**	**77**	**EDRE**	**160S4**	100	456
	189	375	7.74	4860	1.30	-	**RF**	**77**	**EDRE**	**160S4**	110	457
	215	330	6.79	5200	1.45	-	**RM**	**77**	**EDRE**	**160S4**	135	457
	244	290	5.99*	5450	1.60	-						
	275	260	5.31*	5630	1.75	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
7.5	**220**	325	6.63*	10100	1.40	-							
	260	275	5.61	9630	1.65	-							
	281	250	5.19	9440	2.7	-	**RX**	**107**	**EDRE**	**160S4**	165	433
	314	225	4.65	9160	3.0	-	**RXF**	**107**	**EDRE**	**160S4**	185	434
	348	205	4.20*	8900	3.7	-							
	252	280	5.79	8040	1.50	-							
	297	240	4.91	7710	1.65	-							
	323	220	4.52	7540	2.7	-							
	361	198	4.04	7320	3.0	-	**RX**	**97**	**EDRE**	**160S4**	135	431
	401	179	3.64*	7120	3.3	-	**RXF**	**97**	**EDRE**	**160S4**	140	432
	443	162	3.30	6920	3.7	-							
	499	143	2.92	6700	4.2	-							
	324	220	4.50*	5730	1.30	-							
	386	186	3.78	5500	1.65	-							
	420	170	3.48	5390	2.4	-							
	473	151	3.09	5230	2.7	-							
	529	135	2.76*	5080	3.0	-	**RX**	**87**	**EDRE**	**160S4**	110	429
	588	122	2.48	4940	3.3	-	**RXF**	**87**	**EDRE**	**160S4**	115	430
	678	106	2.15	4760	3.6	-							
	757	95	1.93	4620	3.8	-							
	912	78	1.60*	4380	4.0	-							
	1050	68	1.39	4200	4.2	-							
	449	159	3.25*	1900	1.15	-							
	474	151	3.08*	2000	1.30	-							
	542	132	2.70	2220	1.65	-							
	601	119	2.43	2300	1.70	-	**RX**	**77**	**EDRE**	**160S4**	94	427
	685	104	2.13	2430	1.90	-	**RXF**	**77**	**EDRE**	**160S4**	96	428
	777	92	1.88*	2510	2.0	-							
	876	82	1.67	2560	2.1	-							
	1025	70	1.42	2600	2.2	-							
9.2	**4.9**	16700	303	120000	1.10	-	**R**	**167R97**	**EDRE**	**160M4**	820	472
	5.3	15400	279	120000	1.15	-	**RF**	**167R97**	**EDRE**	**160M4**	830	472
							RM	**167R97**	**EDRE**	**160M4**	1020	472
	6.9	11800	214	64800	1.10	-	**R**	**147R87**	**EDRE**	**160M4**	520	472
	7.8	10500	189	67000	1.25	-	**RF**	**147R87**	**EDRE**	**160M4**	520	472
	9.3	8830	159	69300	1.45	-	**RM**	**147R87**	**EDRE**	**160M4**	690	472
	9.0	9760	163.31	68100	1.35	-							
	10	8770	146.91	69400	1.50	-							
	12	7160	119.86	71200	1.80	-							
	13	6530	109.31	71800	2.00	-	**R**	**147**	**EDRE**	**160M4**	450	468
	16	5650	94.60*	72500	2.3	-	**RF**	**147**	**EDRE**	**160M4**	460	469
	18	4980	83.47	73000	2.6	-	**RM**	**147**	**EDRE**	**160M4**	630	469
	20	4300	72.09	73400	3.0	-							
	22	4000	66.99	73500	3.2	-							
	11	7660	128.18	54100	1.05	-							
	13	6790	113.72	55700	1.20	-							
	14	6160	103.20*	56800	1.30	-							
	17	5300	88.70*	58000	1.50	-							
	18	4830	80.91*	58600	1.65	-	**R**	**137**	**EDRE**	**160M4**	320	466
	20	4390	73.49	59100	1.80	-	**RF**	**137**	**EDRE**	**160M4**	345	467
	23	3890	65.20	59600	2.0	-	**RM**	**137**	**EDRE**	**160M4**	455	467
	25	3530	59.17*	59900	2.3	-							
	29	3030	50.86*	60300	2.6	-							
	33	2650	44.39	60600	2.9	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
9.2	**22**	3920	65.60*	29200	1.10	-								
	25	3550	59.41	28700	1.20	-								
	28	3140	52.68	28000	1.35	-	**R**	**107**	**EDRE**	**160M4**	235	464
	31	2840	47.63	27400	1.50	-	**RF**	**107**	**EDRE**	**160M4**	245	465
	36	2410	40.37*	26400	1.80	-	**RM**	**107**	**EDRE**	**160M4**	330	465
	42	2100	35.26	25600	1.95	-						
	50	1760	29.49	24500	2.2	-						
	48	1830	30.77	24700	2.3	-						
	53	1640	27.58	24000	2.6	-	**R**	**107**	**EDRE**	**160M4**	230	464
	59	1480	24.90*	23400	2.9	-	**RF**	**107**	**EDRE**	**160M4**	235	465
	65	1350	22.62	22800	3.2	-	**RM**	**107**	**EDRE**	**160M4**	325	465
	73	1190	20.07	22100	3.6	-						
	34	2550	42.78	20200	1.05	-						
	40	2210	37.13	19800	1.15	-	**R**	**97**	**EDRE**	**160M4**	180	462
	44	1980	33.25	19300	1.25	-	**RF**	**97**	**EDRE**	**160M4**	195	463
	53	1640	27.58	18600	1.45	-	**RM**	**97**	**EDRE**	**160M4**	250	463
	59	1490	25.03	18200	1.45	-						
	66	1330	22.37	17800	1.60	-						
	73	1200	20.14	17300	1.70	-	**R**	**97**	**EDRE**	**160M4**	175	462
	81	1090	18.24	16900	1.85	-	**RF**	**97**	**EDRE**	**160M4**	195	463
	91	960	16.17	16400	2.1	-	**RM**	**97**	**EDRE**	**160M4**	245	463
	101	870	14.62	16000	2.2	-						
	119	740	12.39	14500	2.6	-						
	77	1140	19.10	13500	1.00	-						
	86	1020	17.08*	13200	1.10	-						
	96	910	15.35	12900	1.25	-						
	110	795	13.33	12500	1.40	-						
	123	710	11.93	12200	1.55	-	**R**	**87**	**EDRE**	**160M4**	135	459
	148	590	9.90*	11600	1.80	-	**RF**	**87**	**EDRE**	**160M4**	145	460
	161	545	9.14*	11600	1.80	-	**RM**	**87**	**EDRE**	**160M4**	175	460
	179	490	8.22	11300	1.95	-						
	206	425	7.13	10900	2.1	-						
	230	380	6.39	10500	2.3	-						
	190	460	7.74	3330	1.05	-						
	216	405	6.79	3860	1.20	-	**R**	**77**	**EDRE**	**160M4**	110	456
	245	355	5.99*	4260	1.30	-	**RF**	**77**	**EDRE**	**160M4**	115	457
	277	315	5.31*	4580	1.40	-	**RM**	**77**	**EDRE**	**160M4**	140	457
	283	310	5.19	9200	2.2	-						
	316	275	4.65	8940	2.5	-						
	350	250	4.20*	8710	3.0	-	**RX**	**107**	**EDRE**	**160M4**	175	433
	385	225	3.81	8490	3.5	-	**RXF**	**107**	**EDRE**	**160M4**	190	434
	434	200	3.38	8220	4.1	-						
	325	270	4.52	7330	2.2	-						
	364	240	4.04	7130	2.5	-						
	404	215	3.64*	6940	2.7	-						
	446	197	3.30	6760	3.0	-						
	503	175	2.92	6550	3.4	-	**RX**	**97**	**EDRE**	**160M4**	145	431
	556	158	2.64	6370	3.8	-	**RXF**	**97**	**EDRE**	**160M4**	150	432
	656	134	2.24*	6080	4.4	-						
	751	117	1.96	5850	4.9	-						
	898	98	1.64	5560	5.2	-						
	1040	85	1.42	5320	5.4	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
9.2	**423**	205	3.48	5050	1.95	-							
	476	184	3.09	5060	2.2	-							
	533	165	2.76*	4930	2.5	-							
	592	148	2.48	4800	2.7	-	**RX**	**87**	**EDRE**	**160M4**	120	429
	682	129	2.15	4630	2.9	-	**RXF**	**87**	**EDRE**	**160M4**	125	430
	762	115	1.93	4500	3.1	-						
	919	96	1.60*	4270	3.3	-						
	1055	83	1.39	4110	3.5	-						
	605	145	2.43	1280	1.40	-						
	690	127	2.13	1500	1.55	-						
	782	112	1.88*	1660	1.65	-	**RX**	**77**	**EDRE**	**160M4**	105	427
	882	100	1.67	1780	1.75	-	**RXF**	**77**	**EDRE**	**160M4**	105	428
	1035	85	1.42	1890	1.80	-						
11.0	**5.4**	17800	270	120000	1.00	-						
	6.4	15000	229	120000	1.20	-	**R**	**167R107**	**EDRE**	**180S4**	900	472
	7.3	13100	200	120000	1.35	-	**RF**	**167R107**	**EDRE**	**180S4**	910	472
	8.7	11000	169	120000	1.65	-	**RM**	**167R107**	**EDRE**	**180S4**	1100	472
	7.8	12500	189	63500	1.05	-	**R**	**147R87**	**EDRE**	**180S4**	550	472
	9.3	10500	159	66900	1.25	-	**RF**	**147R87**	**EDRE**	**180S4**	560	472
							RM	**147R87**	**EDRE**	**180S4**	720	472
	6.4	16400	229.71	120000	1.10	-						
	7.9	13300	186.93*	120000	1.35	-						
	9.6	10900	153.07	120000	1.65	-						
	10	10000	139.98	120000	1.80	-	**R**	**167**	**EDRE**	**180S4**	730	470
	12	8700	121.81*	120000	2.1	-	**RF**	**167**	**EDRE**	**180S4**	730	471
	14	7680	107.49	120000	2.3	-	**RM**	**167**	**EDRE**	**180S4**	930	471
	16	6650	93.19	120000	2.7	-						
	18	5920	82.91*	120000	3.0	-						
	9.0	11600	163.31	65100	1.10	-						
	10	10400	146.91	67000	1.25	-						
	12	8560	119.86	69700	1.50	-						
	13	7810	109.31	70500	1.65	-						
	16	6750	94.60*	71600	1.90	-	**R**	**147**	**EDRE**	**180S4**	480	468
	18	5960	83.47	72200	2.2	-	**RF**	**147**	**EDRE**	**180S4**	490	469
	20	5150	72.09	72800	2.5	-	**RM**	**147**	**EDRE**	**180S4**	660	469
	22	4780	66.99	73100	2.7	-						
	24	4360	61.09	73300	2.9	-						
	28	3770	52.87	73700	3.3	-						
	14	7370	103.20*	54700	1.10	-						
	17	6330	88.70*	56500	1.25	-						
	18	5780	80.91*	57400	1.40	-						
	20	5250	73.49	58100	1.50	-						
	23	4650	65.20	58800	1.70	-	**R**	**137**	**EDRE**	**180S4**	355	466
	25	4220	59.17*	59300	1.90	-	**RF**	**137**	**EDRE**	**180S4**	375	467
	29	3630	50.86*	59800	2.2	-	**RM**	**137**	**EDRE**	**180S4**	490	467
	33	3170	44.39	60200	2.4	-						
	39	2690	37.65	60600	2.7	-						
	45	2350	32.91	60800	3.0	-						
	25	4240	59.41	27500	1.00	-						
	28	3760	52.68	27000	1.15	-						
	31	3400	47.63	26500	1.25	-	**R**	**107**	**EDRE**	**180S4**	270	464
	36	2880	40.37*	25600	1.50	-	**RF**	**107**	**EDRE**	**180S4**	275	465
	42	2510	35.26	24900	1.65	-	**RM**	**107**	**EDRE**	**180S4**	365	465
	50	2100	29.49	23900	1.85	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
11.0	**48**	2190	30.77	24100	1.95	-							
	53	1970	27.58	23500	2.2	-							
	59	1770	24.90*	22900	2.4	-	**R**	**107**	**EDRE**	**180S4**	265	464
	65	1610	22.62	22400	2.7	-	**RF**	**107**	**EDRE**	**180S4**	270	465
	73	1430	20.07	21700	3.0	-	**RM**	**107**	**EDRE**	**180S4**	360	465
	81	1300	18.21	21200	3.3	-						
	44	2370	33.25	18600	1.05	-	**R**	**97**	**EDRE**	**180S4**	215	462
	53	1970	27.58	18000	1.20	-	**RF**	**97**	**EDRE**	**180S4**	230	463
							RM	**97**	**EDRE**	**180S4**	280	463
	59	1780	25.03	17600	1.20	-						
	66	1590	22.37	17200	1.35	-						
	73	1430	20.14	16900	1.45	-						
	81	1300	18.24	16500	1.55	-						
	91	1150	16.17	16000	1.75	-						
	101	1040	14.62	15700	1.90	-	**R**	**97**	**EDRE**	**180S4**	210	462
	119	880	12.39	12800	2.2	-	**RF**	**97**	**EDRE**	**180S4**	225	463
	136	770	10.83	13100	2.5	-	**RM**	**97**	**EDRE**	**180S4**	280	463
	158	660	9.29	12000	2.5	-						
	175	595	8.39	12100	2.7	-						
	207	505	7.12	12300	3.0	-						
	237	440	6.21	12300	3.3	-						
	96	1090	15.35	12500	1.05	-						
	110	950	13.33	12100	1.15	-						
	123	850	11.93	11800	1.30	-						
	148	705	9.90*	11300	1.50	-	**R**	**87**	**EDRE**	**180S4**	170	459
	161	650	9.14*	11400	1.50	-	**RF**	**87**	**EDRE**	**180S4**	175	460
	179	585	8.22	11100	1.60	-	**RM**	**87**	**EDRE**	**180S4**	205	460
	206	505	7.13	10700	1.80	-						
	230	455	6.39	10400	1.95	-						
	277	375	5.30*	9850	2.2	-						
	283	370	5.19	8960	1.85	-						
	316	330	4.65	8730	2.1	-						
	350	300	4.20*	8510	2.5	-						
	385	270	3.81	8310	2.9	-	**RX**	**107**	**EDRE**	**180S4**	210	433
	434	240	3.38	8050	3.4	-	**RXF**	**107**	**EDRE**	**180S4**	225	434
	479	215	3.07	7850	3.8	-						
	557	189	2.64*	7530	4.4	-						
	325	320	4.52	7120	1.85	-						
	364	285	4.04	6940	2.1	-						
	404	260	3.64*	6770	2.3	-						
	446	235	3.30	6610	2.5	-						
	503	205	2.92	6410	2.8	-	**RX**	**97**	**EDRE**	**180S4**	175	431
	556	189	2.64	6240	3.2	-	**RXF**	**97**	**EDRE**	**180S4**	185	432
	656	160	2.24*	5970	3.7	-						
	751	140	1.96	5760	4.1	-						
	898	117	1.64	5470	4.3	-						
	1040	101	1.42	5250	4.5	-						
	423	245	3.48	3960	1.65	-						
	476	220	3.09	4160	1.85	-						
	533	197	2.76*	4290	2.0	-						
	592	177	2.48	4380	2.3	-	**RX**	**87**	**EDRE**	**180S4**	150	429
	682	154	2.15	4440	2.4	-	**RXF**	**87**	**EDRE**	**180S4**	155	430
	762	138	1.93	4380	2.6	-						
	919	114	1.60*	4180	2.8	-						
	1055	99	1.39	4030	2.9	-						
15.0	**7.3**	18000	200	120000	1.00	-	**R**	**167R107**	**EDRE**	**180M4**	920	472
	8.7	15100	169	120000	1.20	-	**RF**	**167R107**	**EDRE**	**180M4**	930	472
							RM	**167R107**	**EDRE**	**180M4**	1120	472

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
15.0	**9.6**	14900	153.07	120000	1.20	-								
	10	13600	139.98	120000	1.30	-								
	12	11800	121.81*	120000	1.50	-								
	14	10400	107.49	120000	1.70	-	**R**	**167**	**EDRE**	**180M4**	740	470
	16	9080	93.19	120000	2.00	-	**RF**	**167**	**EDRE**	**180M4**	750	471
	18	8070	82.91*	120000	2.2	-	**RM**	**167**	**EDRE**	**180M4**	950	471
	20	7180	73.70*	120000	2.5	-						
	22	6560	67.40	120000	2.7	-						
	12	11600	119.86	65100	1.10	-						
	13	10600	109.31	66800	1.20	-						
	16	9210	94.60*	68800	1.40	-						
	18	8130	83.47	70200	1.60	-	**R**	**147**	**EDRE**	**180M4**	500	468
	20	7020	72.09	71300	1.85	-	**RF**	**147**	**EDRE**	**180M4**	510	469
	22	6520	66.99	71800	2.00	-	**RM**	**147**	**EDRE**	**180M4**	670	469
	24	5950	61.09	72200	2.2	-						
	28	5150	52.87	72800	2.4	-						
	32	4540	46.65	73200	2.7	-						
	18	7880	80.91*	53600	1.00	-						
	20	7160	73.49	55100	1.10	-						
	23	6350	65.20	56500	1.25	-						
	25	5760	59.17*	57400	1.40	-	**R**	**137**	**EDRE**	**180M4**	370	466
	29	4950	50.86*	58500	1.60	-	**RF**	**137**	**EDRE**	**180M4**	395	467
	33	4320	44.39	59200	1.75	-	**RM**	**137**	**EDRE**	**180M4**	500	467
	39	3660	37.65	59800	2.0	-						
	45	3200	32.91	60200	2.2	-						
	53	2710	27.83	60500	2.5	-						
	36	3930	40.37*	23900	1.10	-	**R**	**107**	**EDRE**	**180M4**	285	464
	42	3430	35.26	23400	1.20	-	**RF**	**107**	**EDRE**	**180M4**	295	465
	50	2870	29.49	22600	1.35	-	**RM**	**107**	**EDRE**	**180M4**	380	465
	48	2990	30.77	22800	1.45	-						
	53	2680	27.58	22300	1.60	-						
	59	2420	24.90*	21900	1.75	-						
	65	2200	22.62	21400	1.95	-	**R**	**107**	**EDRE**	**180M4**	280	464
	73	1950	20.07	20800	2.2	-	**RF**	**107**	**EDRE**	**180M4**	285	465
	81	1770	18.21	20400	2.4	-	**RM**	**107**	**EDRE**	**180M4**	375	465
	94	1520	15.65	19600	2.8	-						
	108	1330	13.66	19000	3.2	-						
	73	1960	20.14	15800	1.05	-						
	81	1770	18.24	15500	1.15	-						
	91	1570	16.17	15200	1.25	-						
	101	1420	14.62	14900	1.40	-						
	119	1200	12.39	8950	1.60	-	**R**	**97**	**EDRE**	**180M4**	225	462
	136	1050	10.83	9730	1.80	-	**RF**	**97**	**EDRE**	**180M4**	245	463
	158	900	9.29	8630	1.80	-	**RM**	**97**	**EDRE**	**180M4**	295	463
	175	810	8.39	9130	1.95	-						
	207	690	7.12	9750	2.2	-						
	237	605	6.21	10100	2.4	-						
	148	960	9.90*	10700	1.10	-						
	161	890	9.14*	11000	1.10	-						
	179	800	8.22	10700	1.20	-	**R**	**87**	**EDRE**	**180M4**	185	459
	206	695	7.13	10300	1.30	-	**RF**	**87**	**EDRE**	**180M4**	195	460
	230	620	6.39	10100	1.45	-	**RM**	**87**	**EDRE**	**180M4**	225	460
	277	515	5.30*	9580	1.60	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
15.0	**283**	505	5.19	8420	1.35	-							
	316	450	4.65	8240	1.55	-							
	350	405	4.20*	8080	1.85	-							
	385	370	3.81	7910	2.2	-							
	434	325	3.38	7700	2.5	-							
	479	295	3.07	7520	2.8	-	**RX**	**107**	**EDRE**	**180M4**	225	433	
	557	255	2.64*	7240	3.2	-	**RXF**	**107**	**EDRE**	**180M4**	240	434	
	638	220	2.30	7000	3.7	-							
	752	190	1.95	6690	4.0	-							
	860	166	1.71	6450	4.2	-							
	1020	141	1.44	6160	4.6	-							
	325	440	4.52	5400	1.35	-							
	364	390	4.04	5690	1.50	-							
	404	350	3.64*	5900	1.70	-							
	446	320	3.30	6060	1.85	-							
	503	280	2.92	6100	2.1	-	**RX**	**97**	**EDRE**	**180M4**	195	431	
	556	255	2.64	5960	2.3	-	**RXF**	**97**	**EDRE**	**180M4**	200	432	
	656	215	2.24*	5720	2.7	-							
	751	191	1.96	5540	3.0	-							
	898	160	1.64	5280	3.2	-							
	1040	138	1.42	5080	3.3	-							
	423	335	3.48	1530	1.20	-							
	476	300	3.09	1950	1.35	-							
	533	265	2.76*	2270	1.50	-							
	592	240	2.48	2520	1.65	-	**RX**	**87**	**EDRE**	**180M4**	170	429	
	682	205	2.15	2760	1.80	-	**RXF**	**87**	**EDRE**	**180M4**	175	430	
	762	188	1.93	2920	1.90	-							
	919	156	1.60*	3050	2.0	-							
	1055	136	1.39	3180	2.1	-							
18.5	**11**	16700	139.98	120000	1.05	-							
	12	14500	121.81*	120000	1.25	-							
	14	12800	107.49	120000	1.40	-							
	16	11100	93.19	120000	1.60	-	**R**	**167**	**EDRE**	**180L4**	760	470	
	18	9930	82.91*	120000	1.80	-	**RF**	**167**	**EDRE**	**180L4**	760	471	
	20	8820	73.70*	120000	2.0	-	**RM**	**167**	**EDRE**	**180L4**	960	471	
	22	8070	67.40	120000	2.2	-							
	25	7020	58.65	120000	2.6	-							
	16	11300	94.60*	65700	1.15	-							
	18	9990	83.47	67800	1.30	-							
	20	8630	72.09	69600	1.50	-							
	22	8020	66.99	70300	1.60	-	**R**	**147**	**EDRE**	**180L4**	510	468	
	24	7310	61.09	71000	1.75	-	**RF**	**147**	**EDRE**	**180L4**	520	469	
	28	6330	52.87	71900	1.95	-	**RM**	**147**	**EDRE**	**180L4**	680	469	
	32	5580	46.65	72500	2.2	-							
	37	4820	40.29	73100	2.5	-							
	23	7800	65.20	53800	1.00	-							
	25	7080	59.17*	55200	1.15	-							
	29	6090	50.86*	56900	1.30	-	**R**	**137**	**EDRE**	**180L4**	380	466	
	33	5310	44.39	58000	1.45	-	**RF**	**137**	**EDRE**	**180L4**	405	467	
	39	4500	37.65	59000	1.65	-	**RM**	**137**	**EDRE**	**180L4**	520	467	
	45	3940	32.91	59600	1.80	-							
	53	3330	27.83	60100	2.1	-							
	50	3540	29.57*	59900	2.2	-							
	61	2880	24.12	60400	2.6	-	**R**	**137**	**EDRE**	**180L4**	370	466	
	67	2630	22.00*	60600	2.8	-	**RF**	**137**	**EDRE**	**180L4**	395	467	
	77	2280	19.04*	60800	3.2	-	**RM**	**137**	**EDRE**	**180L4**	510	467	
	88	2010	16.80*	60900	3.6	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
18.5	**50**	3530	29.49	21500	1.10	-		**R**	**107**	**EDRE**	**180L4**	300	464
								RF	**107**	**EDRE**	**180L4**	305	465
								RM	**107**	**EDRE**	**180L4**	390	465
	59	2980	24.90*	20900	1.45	-							
	65	2700	22.62	20500	1.60	-							
	74	2400	20.07	20100	1.80	-							
	81	2180	18.21	19700	1.95	-							
	94	1870	15.65	19000	2.3	-		**R**	**107**	**EDRE**	**180L4**	290	464
	108	1630	13.66	18500	2.6	-		**RF**	**107**	**EDRE**	**180L4**	300	465
	127	1380	11.59	17700	3.1	-		**RM**	**107**	**EDRE**	**180L4**	385	465
	146	1210	10.13	17100	3.5	-							
	188	940	7.86	16300	3.2	-							
	221	795	6.66	15500	3.7	-							
	91	1930	16.17	14400	1.05	-							
	101	1750	14.62	14200	1.10	-							
	119	1480	12.39	13800	1.30	-							
	136	1290	10.83	13400	1.45	-							
	159	1110	9.29	13400	1.45	-		**R**	**97**	**EDRE**	**180L4**	240	462
	176	1000	8.39	13100	1.60	-		**RF**	**97**	**EDRE**	**180L4**	255	463
	207	850	7.12	12500	1.80	-		**RM**	**97**	**EDRE**	**180L4**	305	463
	237	740	6.21	12100	2.00	-							
	284	620	5.20	11500	2.3	-							
	328	535	4.50*	11100	2.5	-							
	207	850	7.13	10000	1.05	-		**R**	**87**	**EDRE**	**180L4**	200	459
	231	765	6.39	9760	1.15	-		**RF**	**87**	**EDRE**	**180L4**	205	460
	278	630	5.30*	9340	1.30	-		**RM**	**87**	**EDRE**	**180L4**	235	460
	351	500	4.20*	7470	1.50	-							
	387	455	3.81	7570	1.75	-							
	436	405	3.38	7390	2.0	-							
	480	365	3.07	7240	2.3	-							
	559	315	2.64*	7000	2.6	-		**RX**	**107**	**EDRE**	**180L4**	235	433
	640	275	2.30	6770	3.0	-		**RXF**	**107**	**EDRE**	**180L4**	255	434
	755	230	1.95	6500	3.3	-							
	863	200	1.71	6280	3.4	-							
	1020	173	1.44	6010	3.7	M2							
	405	435	3.64*	4140	1.35	-							
	447	390	3.30	4430	1.50	-							
	505	350	2.92	4740	1.70	-							
	558	315	2.64	4920	1.90	-		**RX**	**97**	**EDRE**	**180L4**	205	431
	658	265	2.24*	5070	2.2	-		**RXF**	**97**	**EDRE**	**180L4**	210	432
	754	230	1.96	5200	2.4	-							
	901	196	1.64	5110	2.6	-							
	1040	170	1.42	4930	2.7	-							
	534	330	2.76*	520	1.25	-							
	594	295	2.48	910	1.35	-							
	685	255	2.15	1310	1.45	-		**RX**	**87**	**EDRE**	**180L4**	180	429
	765	230	1.93	1570	1.55	-		**RXF**	**87**	**EDRE**	**180L4**	185	430
	922	192	1.60*	1850	1.65	-							
	1060	167	1.39	2100	1.75	-							
22	**12**	17200	121.81*	120000	1.05	-							
	14	15200	107.49	120000	1.20	-							
	16	13200	93.19	120000	1.35	-							
	18	11700	82.91*	120000	1.55	-		**R**	**167**	**EDRE**	**200L4**	860	470
	20	10400	73.70*	120000	1.70	-		**RF**	**167**	**EDRE**	**200L4**	870	471
	22	9560	67.40	120000	1.90	-		**RM**	**167**	**EDRE**	**200L4**	1060	471
	25	8320	58.65	120000	2.2	-							
	29	7340	51.76	120000	2.4	-							
	33	6360	44.87	120000	2.8	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
22	**18**	11800	83.47	64800	1.10	-							
	21	10200	72.09	67400	1.25	-							
	22	9500	66.99	68500	1.35	-							
	24	8670	61.09	69500	1.50	-	**R**	**147**	**EDRE**	**200L4**	610	468
	28	7500	52.87	70800	1.65	-	**RF**	**147**	**EDRE**	**200L4**	620	469
	32	6620	46.65	71700	1.85	-	**RM**	**147**	**EDRE**	**200L4**	790	469
	37	5710	40.29	72400	2.1	-						
	42	5050	35.64	72900	2.3	-						
	49	4250	29.95	73400	2.7	-						
	29	7210	50.86*	55000	1.10	-						
	33	6300	44.39	56600	1.20	-	**R**	**137**	**EDRE**	**200L4**	485	466
	39	5340	37.65	58000	1.35	-	**RF**	**137**	**EDRE**	**200L4**	510	467
	45	4670	32.91	58800	1.50	-	**RM**	**137**	**EDRE**	**200L4**	620	467
	53	3940	27.83	59600	1.75	-						
	50	4190	29.57*	59300	1.85	-						
	61	3420	24.12	60000	2.2	-						
	67	3120	22.00*	60300	2.4	-	**R**	**137**	**EDRE**	**200L4**	475	466
	78	2700	19.04*	60500	2.7	-	**RF**	**137**	**EDRE**	**200L4**	500	467
	88	2380	16.80*	60700	3.0	-	**RM**	**137**	**EDRE**	**200L4**	610	467
	102	2050	14.51	60900	3.5	-						
	115	1820	12.83	61000	4.0	-						
	59	3530	24.90*	20000	1.20	-						
	65	3210	22.62	19700	1.35	-						
	74	2840	20.07	19300	1.50	-						
	81	2580	18.21	19000	1.65	-						
	95	2220	15.65	18400	1.95	-						
	108	1930	13.66	17900	2.2	-	**R**	**107**	**EDRE**	**200L4**	395	464
	128	1640	11.59	17300	2.6	-	**RF**	**107**	**EDRE**	**200L4**	400	465
	146	1430	10.13	16800	3.0	-	**RM**	**107**	**EDRE**	**200L4**	490	465
	173	1210	8.56	16100	3.5	-						
	188	1110	7.86	16000	2.7	-						
	222	940	6.66	15300	3.1	-						
	254	820	5.82	14800	3.6	-						
	119	1750	12.39	13200	1.10	-						
	137	1530	10.83	12900	1.25	-						
	159	1310	9.29	13100	1.25	-						
	176	1190	8.39	12800	1.35	-	**R**	**97**	**EDRE**	**200L4**	340	462
	208	1010	7.12	12300	1.50	-	**RF**	**97**	**EDRE**	**200L4**	360	463
	238	880	6.21	11900	1.70	-	**RM**	**97**	**EDRE**	**200L4**	410	463
	285	735	5.20	11300	1.90	-						
	329	635	4.50*	10900	2.1	-						
	352	595	4.20*	5860	1.25	-						
	388	540	3.81	6150	1.50	-						
	437	480	3.38	6440	1.75	-						
	482	435	3.07	6600	1.90	-						
	561	370	2.64*	6740	2.2	-	**RX**	**107**	**EDRE**	**200L4**	340	433
	642	325	2.30	6550	2.5	-	**RXF**	**107**	**EDRE**	**200L4**	355	434
	757	275	1.95	6300	2.8	-						
	866	240	1.71	6100	2.9	-						
	1025	205	1.44	5850	3.2	-						
	407	515	3.64*	2390	1.15	-						
	449	465	3.30	2820	1.25	-						
	506	410	2.92	3280	1.45	-						
	560	375	2.64	3560	1.60	-	**RX**	**97**	**EDRE**	**200L4**	305	431
	661	315	2.24*	3870	1.85	-	**RXF**	**97**	**EDRE**	**200L4**	315	432
	756	275	1.96	4120	2.0	-						
	904	230	1.64	4260	2.2	-						
	1045	200	1.42	4320	2.3	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
30	**16**	18000	93.19	120000	1.00	-							
	18	16000	82.91*	120000	1.10	-							
	20	14200	73.70*	120000	1.25	-							
	22	13000	67.40	120000	1.40	-							
	25	11300	58.65	120000	1.60	-	**R**	**167**	**EDRE**	**225S4**	890	470
	29	10000	51.76	120000	1.80	-	**RF**	**167**	**EDRE**	**225S4**	900	471
	33	8680	44.87	120000	2.1	-	**RM**	**167**	**EDRE**	**225S4**	1100	471
	37	7720	39.92	120000	2.3	-						
	43	6660	34.41	120000	2.6	-						
	53	5410	27.96	120000	3.0	-						
	62	4580	23.71	120000	3.4	M2						
	22	12900	66.99	62700	1.00	-						
	24	11800	61.09	64900	1.10	-						
	28	10200	52.87	67400	1.20	-						
	32	9030	46.65	69100	1.35	-	**R**	**147**	**EDRE**	**225S4**	650	468
	37	7790	40.29	70500	1.55	-	**RF**	**147**	**EDRE**	**225S4**	660	469
	42	6890	35.64	71400	1.70	-	**RM**	**147**	**EDRE**	**225S4**	820	469
	49	5790	29.95	72400	1.95	-						
	61	4680	24.19	73200	2.3	M2						
	72	3950	20.44	73600	3.0	-	**R**	**147**	**EDRE**	**225S4**	630	468
	82	3490	18.04	73800	3.0	-	**RF**	**147**	**EDRE**	**225S4**	640	469
	95	3020	15.64	74000	4.3	-	**RM**	**147**	**EDRE**	**225S4**	810	469
	39	7280	37.65	54800	1.00	-	**R**	**137**	**EDRE**	**225S4**	520	466
	45	6370	32.91	56500	1.10	-	**RF**	**137**	**EDRE**	**225S4**	540	467
	53	5380	27.83	57900	1.30	-	**RM**	**137**	**EDRE**	**225S4**	650	467
	61	4660	24.12	58800	1.60	-						
	67	4250	22.00*	59200	1.75	-						
	78	3680	19.04*	59800	2.00	-						
	88	3250	16.80*	60200	2.2	-	**R**	**137**	**EDRE**	**225S4**	510	466
	102	2800	14.51	59500	2.6	-	**RF**	**137**	**EDRE**	**225S4**	530	467
	115	2480	12.83	58300	2.9	-	**RM**	**137**	**EDRE**	**225S4**	640	467
	137	2080	10.79	56600	3.5	-						
	195	1460	7.59	53200	3.5	-						
	232	1230	6.38	51200	4.1	-						
	74	3880	20.07	17600	1.10	-						
	81	3520	18.21	17400	1.20	-						
	95	3020	15.65	17100	1.40	-						
	108	2640	13.66	16800	1.65	-						
	128	2240	11.59	16300	1.90	-	**R**	**107**	**EDRE**	**225S4**	430	464
	146	1960	10.13	15900	2.2	-	**RF**	**107**	**EDRE**	**225S4**	435	465
	173	1650	8.56	15300	2.6	-	**RM**	**107**	**EDRE**	**225S4**	520	465
	188	1520	7.86	15500	1.95	-						
	222	1280	6.66	14800	2.3	-						
	254	1120	5.82	14300	2.6	-						
	301	950	4.92	13700	3.0	-						
	208	1370	7.12	11700	1.10	-						
	238	1200	6.21	11300	1.25	-	**R**	**97**	**EDRE**	**225S4**	375	462
	285	1000	5.20	10900	1.40	-	**RF**	**97**	**EDRE**	**225S4**	390	463
	329	870	4.50*	10500	1.55	-	**RM**	**97**	**EDRE**	**225S4**	445	463
	437	655	3.38	3350	1.25	-						
	482	590	3.07	3740	1.40	-						
	561	510	2.64*	4220	1.60	-						
	642	445	2.30	4560	1.85	-	**RX**	**107**	**EDRE**	**225S4**	375	433
	757	375	1.95	4820	2.0	-	**RXF**	**107**	**EDRE**	**225S4**	390	434
	866	330	1.71	4960	2.1	-						
	1025	275	1.44	5120	2.3	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
30	**560**	510	2.64	450	1.15	-							
	661	430	2.24*	1100	1.35	-							
	756	375	1.96	1630	1.50	-		**RX**	**97**	**EDRE**	**225S4**	340	431
	904	315	1.64	2050	1.60	-		**RXF**	**97**	**EDRE**	**225S4**	350	432
	1045	270	1.42	2310	1.65	-							
37	**20**	17500	73.70*	120000	1.00	-							
	22	16000	67.40	120000	1.10	-							
	25	14000	58.65	120000	1.30	-							
	29	12300	51.76	120000	1.45	-		**R**	**167**	**EDRE**	**225M4**	910	470
	33	10700	44.87	120000	1.70	-		**RF**	**167**	**EDRE**	**225M4**	920	471
	37	9530	39.92	120000	1.90	-		**RM**	**167**	**EDRE**	**225M4**	1110	471
	43	8210	34.41	120000	2.1	-							
	53	6670	27.96	120000	2.5	-							
	48	7330	30.71	120000	1.35	-							
	60	5860	24.57	120000	2.4	-		**R**	**167**	**EDRE**	**225M4**	910	470
	68	5210	21.85	120000	2.5	-		**RF**	**167**	**EDRE**	**225M4**	910	471
	78	4540	19.03	120000	3.5	-		**RM**	**167**	**EDRE**	**225M4**	1110	471
	87	4050	16.98	120000	3.7	-							
	32	11100	46.65	66000	1.10	-							
	37	9610	40.29	68300	1.25	-		**R**	**147**	**EDRE**	**225M4**	670	468
	42	8500	35.64	69700	1.40	-		**RF**	**147**	**EDRE**	**225M4**	670	469
	49	7150	29.95	71200	1.60	-		**RM**	**147**	**EDRE**	**225M4**	840	469
	61	5770	24.19	72400	1.85	M2							
	72	4870	20.44	73000	2.5	-		**R**	**147**	**EDRE**	**225M4**	650	468
	82	4300	18.04	73400	2.4	-		**RF**	**147**	**EDRE**	**225M4**	660	469
	95	3730	15.64	73700	3.5	-		**RM**	**147**	**EDRE**	**225M4**	830	469
	106	3320	13.91	73900	3.8	-							
	53	6640	27.83	56000	1.05	M2		**R**	**137**	**EDRE**	**225M4**	540	466
								RF	**137**	**EDRE**	**225M4**	560	467
								RM	**137**	**EDRE**	**225M4**	670	467
	61	5750	24.12	57400	1.30	-							
	67	5250	22.00*	58100	1.40	-							
	78	4540	19.04*	57800	1.60	-							
	88	4010	16.80*	57300	1.80	-							
	102	3460	14.51	56500	2.1	-		**R**	**137**	**EDRE**	**225M4**	530	466
	115	3060	12.83	55700	2.4	-		**RF**	**137**	**EDRE**	**225M4**	550	467
	137	2570	10.79	54400	2.8	-		**RM**	**137**	**EDRE**	**225M4**	660	467
	170	2070	8.71	52500	3.5	M2							
	195	1810	7.59	51800	2.8	-							
	232	1520	6.38	50000	3.4	-							
	287	1230	5.15	47700	3.7	M2							
	95	3730	15.65	15900	1.15	-							
	108	3260	13.66	15700	1.30	-							
	128	2760	11.59	15400	1.55	-							
	146	2410	10.13	15100	1.80	-		**R**	**107**	**EDRE**	**225M4**	450	464
	173	2040	8.56	14700	2.1	-		**RF**	**107**	**EDRE**	**225M4**	455	465
	188	1870	7.86	15000	1.60	-		**RM**	**107**	**EDRE**	**225M4**	540	465
	222	1590	6.66	14400	1.85	-							
	254	1390	5.82	14000	2.1	-							
	301	1170	4.92	13400	2.5	-							
	437	800	3.38	640	1.05	-							
	482	730	3.07	1240	1.15	-							
	561	630	2.64*	1990	1.30	-							
	642	550	2.30	2560	1.50	-		**RX**	**107**	**EDRE**	**225M4**	395	433
	757	465	1.95	3040	1.65	-		**RXF**	**107**	**EDRE**	**225M4**	410	434
	866	405	1.71	3340	1.75	-							
	1025	340	1.44	3700	1.85	-							

8.2 Selection tables for parallel-shaft helical gearmotors /2GD T3

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.12	**0.07**	11800	19048	90000	1.00	-							
	0.08	10300	16656	90000	1.15	-		**FA**	**127R77**	**EDR**	**63S4**	425	527
	0.09	9180	14722	90000	1.30	-	X	**FAF**	**127R77**	**EDR**	**63S4**	465	527
	0.11	7990	12912	90000	1.50	-	X	**F**	**127R77**	**EDR**	**63S4**	460	527
	0.12	7040	11656	90000	1.70	-	X	**FF**	**127R77**	**EDR**	**63S4**	510	527
	0.14	6310	10191	90000	1.90	-	X						
	0.12	7070	11348	51400	1.10	-							
	0.14	5740	10039	54600	1.35	-	X						
	0.16	4670	8548	57000	1.65	-	X						
	0.18	4750	7674	56800	1.60	-	X	**FA**	**107R77**	**EDR**	**63S4**	275	527
	0.20	4090	6767	58200	1.90	-	X	**FAF**	**107R77**	**EDR**	**63S4**	295	527
	0.23	3460	5954	59500	2.2	-	X	**F**	**107R77**	**EDR**	**63S4**	290	527
	0.26	2990	5223	60400	2.6	-	X	**FF**	**107R77**	**EDR**	**63S4**	320	527
	0.30	2840	4567	60700	2.7	-							
	0.39	2120	3521	62000	3.6	-							
	0.21	4140	6469	30400	1.05	-		**FA**	**97R57**	**EDR**	**63S4**	185	527
	0.25	3820	5615	31300	1.15	-		**FAF**	**97R57**	**EDR**	**63S4**	205	527
	0.28	3320	4961	32500	1.30	-	X	**F**	**97R57**	**EDR**	**63S4**	190	527
	0.32	2900	4333	33500	1.50	-	X	**FF**	**97R57**	**EDR**	**63S4**	225	527
	0.35	2690	3906	34000	1.60	-	X	**FA**	**97R57**	**EDR**	**63S4**	180	527
	0.41	2320	3352	34800	1.85	-		**FAF**	**97R57**	**EDR**	**63S4**	205	527
	0.47	1910	2907	35500	2.2	-		**F**	**97R57**	**EDR**	**63S4**	190	527
	0.54	1750	2553	35800	2.4	-		**FF**	**97R57**	**EDR**	**63S4**	225	527
	0.33	2760	4245	23800	1.10	-		**FA**	**87R57**	**EDR**	**63S4**	120	527
	0.37	2210	3721	25800	1.35	-	X	**FAF**	**87R57**	**EDR**	**63S4**	130	527
								F	**87R57**	**EDR**	**63S4**	125	527
								FF	**87R57**	**EDR**	**63S4**	140	527
	0.43	2240	3244	25700	1.35	-	X						
	0.48	1990	2881	26500	1.50	-	X						
	0.54	1780	2576	27100	1.70	-	X						
	0.63	1510	2199	27800	2.00	-		**FA**	**87R57**	**EDR**	**63S4**	115	527
	0.72	1300	1930	28300	2.3	-		**FAF**	**87R57**	**EDR**	**63S4**	130	527
	0.81	1170	1709	28600	2.6	-		**F**	**87R57**	**EDR**	**63S4**	125	527
	0.92	1030	1493	28900	2.9	-		**FF**	**87R57**	**EDR**	**63S4**	140	527
	1.1	820	1300	29300	3.7	-							
	1.2	745	1148	29500	4.0	-							
	0.68	1380	2029	16400	1.10	-		**FA**	**77R37**	**EDR**	**63S4**	65	527
								FAF	**77R37**	**EDR**	**63S4**	72	527
								F	**77R37**	**EDR**	**63S4**	69	527
								FF	**77R37**	**EDR**	**63S4**	80	527
	0.80	1180	1728	17500	1.25	-	X						
	0.89	1090	1544	17900	1.40	-	X						
	1.0	950	1354	18500	1.55	-	X	**FA**	**77R37**	**EDR**	**63S4**	65	527
	1.2	840	1200	18800	1.75	-		**FAF**	**77R37**	**EDR**	**63S4**	72	527
	1.3	740	1053	19100	2.0	-		**F**	**77R37**	**EDR**	**63S4**	69	527
	1.5	630	910	19400	2.4	-		**FF**	**77R37**	**EDR**	**63S4**	80	527
	1.7	525	810	19600	2.8	-							
	1.9	460	710	19800	3.2	-							
	1.2	725	1102	11100	1.15	-							
	1.4	635	970	11700	1.30	-	X						
	1.6	560	858	12100	1.45	-	X	**FA**	**67R37**	**EDR**	**63S4**	43	527
	1.8	490	755	12400	1.65	-	X	**FAF**	**67R37**	**EDR**	**63S4**	49	527
	2.2	415	641	12700	1.95	-	X	**F**	**67R37**	**EDR**	**63S4**	46	527
	2.4	390	572	12800	2.1	-		**FF**	**67R37**	**EDR**	**63S4**	52	527
	2.7	330	509	13000	2.5	-							
	3.2	285	437	13000	2.8	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.12	**1.9**	520	738	9750	1.15	-		**FA**	**57R37**	**EDR**	**63S4**	39	527
	2.1	455	646	10200	1.30	-							
	2.5	385	558	10600	1.55	-	X	**FAF**	**57R37**	**EDR**	**63S4**	45	527
	2.7	345	506	10900	1.75	-		**F**	**57R37**	**EDR**	**63S4**	39	527
	3.0	295	452	11100	2.0	-		**FF**	**57R37**	**EDR**	**63S4**	46	527
	3.2	310	426	11100	1.95	-							
	3.6	270	382	11300	2.2	-		**FA**	**57R37**	**EDR**	**63S4**	38	527
	4.2	230	330	11500	2.6	-		**FAF**	**57R37**	**EDR**	**63S4**	44	527
	4.6	210	298	11500	2.8	-		**F**	**57R37**	**EDR**	**63S4**	39	527
	5.3	185	262	11500	3.2	-		**FF**	**57R37**	**EDR**	**63S4**	45	527
	2.5	385	543	6100	1.05	-		**FA**	**47R17**	**EDR**	**63S4**	24	527
	2.9	330	475	6740	1.20	-	X	**FAF**	**47R17**	**EDR**	**63S4**	26	527
	3.3	290	419	7150	1.40	-		**F**	**47R17**	**EDR**	**63S4**	25	527
								FF	**47R17**	**EDR**	**63S4**	28	527
	2.6	380	524	6190	1.05	-							
	2.8	350	489	6530	1.15	-							
	3.2	300	427	7020	1.30	-		**FA**	**47R17**	**EDR**	**63S4**	23	527
	3.6	265	381	7310	1.50	-	X	**FAF**	**47R17**	**EDR**	**63S4**	26	527
	4.1	235	334	7550	1.70	-		**F**	**47R17**	**EDR**	**63S4**	24	527
	4.7	205	295	7740	1.95	-		**FF**	**47R17**	**EDR**	**63S4**	27	527
	5.4	172	253	7910	2.3	-							
	5.0	192	278	4400	1.05	-		**FA**	**37R17**	**EDR**	**63S4**	19	527
	5.7	162	242	4750	1.25	-		**FAF**	**37R17**	**EDR**	**63S4**	20	527
	6.2	156	221	4820	1.30	-		**F**	**37R17**	**EDR**	**63S4**	19	527
								FF	**37R17**	**EDR**	**63S4**	21	527
	5.5	177	250	4590	1.15	-		**FA**	**37R17**	**EDR**	**63S4**	19	527
	6.3	156	219	4820	1.30	-		**FAF**	**37R17**	**EDR**	**63S4**	20	527
	7.4	132	186	5040	1.50	-		**F**	**37R17**	**EDR**	**63S4**	19	527
	8.3	118	167	5140	1.70	-		**FF**	**37R17**	**EDR**	**63S4**	21	527
	8.0	119	172	4500	1.10	-	X	**FA**	**27R17**	**EDR**	**63S4**	13	527
	9.0	104	153	4500	1.25	-	X	**FAF**	**27R17**	**EDR**	**63S4**	14	527
	11	87	130	4500	1.50	-	X	**F**	**27R17**	**EDR**	**63S4**	13	527
								FF	**27R17**	**EDR**	**63S4**	14	527
	7.4	131	186	4500	1.00	-	X						
	9.7	102	142	4500	1.25	-	X	**FA**	**27R17**	**EDR**	**63S4**	13	527
	11	88	124	4500	1.45	-	X	**FAF**	**27R17**	**EDR**	**63S4**	13	527
	13	77	109	4500	1.70	-	X	**F**	**27R17**	**EDR**	**63S4**	13	527
	14	67	96	4500	1.95	-	X	**FF**	**27R17**	**EDR**	**63S4**	14	527
	6.0	190	228.99	13000	4.3	-							
	7.1	162	195.39	13000	5.1	-		**FA**	**67**	**EDR**	**63S4**	32	494
	8.1	142	170.85	13000	5.8	-		**FAF**	**67**	**EDR**	**63S4**	38	493
	8.5	135	162.31	13000	6.1	-		**F**	**67**	**EDR**	**63S4**	35	492
	9.7	118	142.40	13000	6.9	-		**FF**	**67**	**EDR**	**63S4**	41	493
	6.9	166	199.70	11500	3.6	-							
	7.5	152	183.60	11500	3.9	-		**FA**	**57**	**EDR**	**63S4**	28	489
	8.8	130	157.09	11500	4.6	-		**FAF**	**57**	**EDR**	**63S4**	34	488
	10	113	136.16	11500	5.3	-		**F**	**57**	**EDR**	**63S4**	28	487
	11	106	127.27	11500	5.7	-		**FF**	**57**	**EDR**	**63S4**	35	488
	7.2	158	190.76	7970	2.5	-							
	7.9	146	175.38	8020	2.8	-							
	9.2	125	150.06	8100	3.2	-		**FA**	**47**	**EDR**	**63S4**	21	484
	11	108	130.07	8150	3.7	-		**FAF**	**47**	**EDR**	**63S4**	24	483
	11	101	121.57	8170	4.0	-		**F**	**47**	**EDR**	**63S4**	22	482
	13	87	105.09	8200	4.6	-		**FF**	**47**	**EDR**	**63S4**	25	483
	15	74	89.29	8230	5.4	-							
	17	66	79.72	8240	6.0	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.12	**11**	107	128.51	5220	1.85	-		**FA**	**37**	**EDR**	**63S4**		16	479
	12	98	117.88	5270	2.0	-		**FAF**	**37**	**EDR**	**63S4**		18	478
	14	83	100.36	5340	2.4	-		**F**	**37**	**EDR**	**63S4**		16	477
	16	72	86.53	5400	2.8	-		**FF**	**37**	**EDR**	**63S4**		18	478
	17	67	80.65	5410	3.0	-								
	9.8	117	140.74	4500	1.10	-	X							
	11	107	129.09	4500	1.20	-	X							
	13	91	109.90	4500	1.40	-	X							
	15	79	94.76	4500	1.65	-	X							
	16	73	88.32	4500	1.75	-	X							
	18	64	77.21	4500	2.0	-	X	**FA**	**27**	**EDR**	**63S4**		9.9	475
	19	60	72.37	4500	2.2	-	X	**FAF**	**27**	**EDR**	**63S4**		11	474
	22	53	63.86	4500	2.4	-	X	**F**	**27**	**EDR**	**63S4**		10	473
	24	47	56.62	4500	2.8	-	X	**FF**	**27**	**EDR**	**63S4**		11	474
	28	42	50.19	4500	3.1	-	X							
	30	39	46.78	4500	3.4	-	X							
	34	34	40.89	4500	3.8	-	X							
	36	32	38.33	4430	4.1	-	X							
	41	28	33.83	4270	4.6	-	X							
	47	24	29.56	4100	5.3	-	X							
	51	23	27.18	4000	5.8	-	X							
	59	19	23.25	3820	6.7	-	X							
	68	17	20.15	3650	7.8	-	X							
	73	16	18.84	3580	8.3	-	X							
	85	14	16.28	3420	9.6	-	X							
	100	12	13.84	3250	11	-	X							
	112	10	12.35	3140	12	-	X	**FA**	**27**	**EDR**	**63S4**		9.6	475
	131	8.8	10.55	2990	14	-	X	**FAF**	**27**	**EDR**	**63S4**		10	474
	140	8.2	9.88	2920	15	-	X	**F**	**27**	**EDR**	**63S4**		10	473
	147	7.8	9.40	2870	13	-	X	**FF**	**27**	**EDR**	**63S4**		11	474
	170	6.7	8.13	2740	15	-	X							
	200	5.7	6.91	2600	16	-	X							
	224	5.1	6.17	2510	18	-	X							
	262	4.4	5.27	2390	20	-	X							
	280	4.1	4.93	2340	20	-	X							
	332	3.5	4.16	2210	23	-	X							
0.18	**0.11**	12000	11656	90000	1.00	-		**FA**	**127R77**	**EDR**	**63M4**		425	527
	0.13	10600	10191	90000	1.15	-		**FAF**	**127R77**	**EDR**	**63M4**		465	527
	0.15	8820	8831	90000	1.35	-	X	**F**	**127R77**	**EDR**	**63M4**		460	527
	0.17	7630	7643	90000	1.55	-	X	**FF**	**127R77**	**EDR**	**63M4**		510	527
	0.20	7040	6715	90000	1.70	-								
	0.20	6970	6767	51600	1.10	-		**FA**	**107R77**	**EDR**	**63M4**		275	527
	0.22	6000	5954	54000	1.30	-	X	**FAF**	**107R77**	**EDR**	**63M4**		295	527
	0.26	5210	5223	55800	1.45	-	X	**F**	**107R77**	**EDR**	**63M4**		290	527
	0.29	4780	4567	56800	1.60	-	X	**FF**	**107R77**	**EDR**	**63M4**		320	527
	0.38	3630	3521	59200	2.1	-								
	0.44	3210	3037	60000	2.4	-		**FA**	**107R77**	**EDR**	**63M4**		275	527
	0.48	2910	2756	60500	2.6	-		**FAF**	**107R77**	**EDR**	**63M4**		295	527
	0.56	2500	2369	61300	3.1	-		**F**	**107R77**	**EDR**	**63M4**		290	527
	0.65	2180	2068	61900	3.5	-		**FF**	**107R77**	**EDR**	**63M4**		315	527

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.18	**0.40**	3760	3352	31400	1.15	-							
	0.46	3170	2907	32900	1.35	-							
	0.52	2850	2553	33600	1.50	-							
	0.59	2510	2245	34400	1.70	-		**FA**	**97R57**	**EDR**	**63M4**	180	527
	0.68	2180	1970	35000	1.95	-		**FAF**	**97R57**	**EDR**	**63M4**	205	527
	0.78	1930	1722	35500	2.2	-		**F**	**97R57**	**EDR**	**63M4**	190	527
	0.87	1710	1527	35900	2.5	-		**FF**	**97R57**	**EDR**	**63M4**	225	527
	1.0	1400	1327	36400	3.0	-							
	1.1	1310	1171	36600	3.3	-							
	0.52	2890	2576	23400	1.05	-							
	0.61	2460	2199	24900	1.20	-	X						
	0.69	2130	1930	26000	1.40	-	X						
	0.78	1910	1709	26700	1.55	-		**FA**	**87R57**	**EDR**	**63M4**	115	527
	0.89	1670	1493	27400	1.80	-		**FAF**	**87R57**	**EDR**	**63M4**	130	527
	1.0	1380	1300	28100	2.2	-		**F**	**87R57**	**EDR**	**63M4**	125	527
	1.2	1240	1148	28400	2.4	-		**FF**	**87R57**	**EDR**	**63M4**	140	527
	1.3	1070	1010	28800	2.8	-							
	1.5	950	887	29100	3.1	-							
	1.7	820	780	29300	3.6	-							
	1.1	1360	1200	16600	1.10	-							
	1.3	1190	1053	17500	1.25	-		**FA**	**77R37**	**EDR**	**63M4**	65	527
	1.5	1020	910	18200	1.45	-		**FAF**	**77R37**	**EDR**	**63M4**	72	527
	1.6	870	810	18700	1.70	-		**F**	**77R37**	**EDR**	**63M4**	69	527
	1.9	770	710	19100	1.95	-		**FF**	**77R37**	**EDR**	**63M4**	80	527
	2.2	680	615	19300	2.2	-							
	1.8	810	755	10300	1.00	-							
	2.1	690	641	11300	1.20	-	X	**FA**	**67R37**	**EDR**	**63M4**	43	527
	2.3	635	572	11700	1.30	-	X	**FAF**	**67R37**	**EDR**	**63M4**	49	527
	2.6	550	509	12200	1.50	-	X	**F**	**67R37**	**EDR**	**63M4**	46	527
	3.1	475	437	12500	1.70	-		**FF**	**67R37**	**EDR**	**63M4**	52	527
	3.5	425	384	12700	1.90	-							
	2.7	570	500	12100	1.45	-	X						
	2.9	520	454	12300	1.55	-							
	3.4	445	392	12600	1.85	-		**FA**	**67R37**	**EDR**	**63M4**	42	527
	4.0	375	333	12900	2.2	-		**FAF**	**67R37**	**EDR**	**63M4**	48	527
	4.5	330	297	13000	2.5	-		**F**	**67R37**	**EDR**	**63M4**	45	527
	5.1	290	261	13000	2.8	-		**FF**	**67R37**	**EDR**	**63M4**	51	527
	5.6	260	238	13000	3.1	-							
	6.7	215	200	13000	3.8	-							
	2.6	560	506	9470	1.05	-		**FA**	**57R37**	**EDR**	**63M4**	39	527
	3.0	490	452	9970	1.20	-		**FAF**	**57R37**	**EDR**	**63M4**	45	527
	3.5	420	386	10400	1.40	-		**F**	**57R37**	**EDR**	**63M4**	39	527
	4.0	365	338	10800	1.65	-		**FF**	**57R37**	**EDR**	**63M4**	46	527
	3.1	495	426	9950	1.20	-							
	3.5	435	382	10300	1.35	-							
	4.0	375	330	10700	1.60	-		**FA**	**57R37**	**EDR**	**63M4**	38	527
	4.5	340	298	10900	1.75	-		**FAF**	**57R37**	**EDR**	**63M4**	44	527
	5.1	295	262	11100	2.0	-		**F**	**57R37**	**EDR**	**63M4**	39	527
	5.9	250	226	11400	2.4	-		**FF**	**57R37**	**EDR**	**63M4**	45	527
	6.7	220	200	11500	2.7	-							
	4.1	370	324	6300	1.10	-		**FA**	**47R17**	**EDR**	**63M4**	24	527
	4.6	320	288	6850	1.25	-		**FAF**	**47R17**	**EDR**	**63M4**	26	527
	5.4	270	249	7280	1.45	-		**F**	**47R17**	**EDR**	**63M4**	25	527
								FF	**47R17**	**EDR**	**63M4**	28	527

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.18	**4.0**	380	334	6170	1.05	-								
	4.5	330	295	6720	1.20	-		**FA**	**47R17**	**EDR**	**63M4**		23	527
	5.3	280	253	7220	1.40	-		**FAF**	**47R17**	**EDR**	**63M4**		26	527
	6.2	250	217	7450	1.60	-		**F**	**47R17**	**EDR**	**63M4**		24	527
	7.0	215	190	7670	1.80	-		**FF**	**47R17**	**EDR**	**63M4**		27	527
	7.5	200	178	7750	1.85	-								
	8.0	191	167	4420	1.05	-		**FA**	**37R17**	**EDR**	**63M4**		19	527
	9.2	169	145	4680	1.20	-		**FAF**	**37R17**	**EDR**	**63M4**		20	527
	10	149	129	4880	1.35	-		**F**	**37R17**	**EDR**	**63M4**		19	527
								FF	**37R17**	**EDR**	**63M4**		21	527
	12	124	109	4500	1.05	-	X	**FA**	**27R17**	**EDR**	**63M4**		13	527
	14	109	96	4500	1.20	-	X	**FAF**	**27R17**	**EDR**	**63M4**		13	527
								F	**27R17**	**EDR**	**63M4**		13	527
								FF	**27R17**	**EDR**	**63M4**		14	527
	4.7	360	281.71	19900	4.1	-		**FA**	**77**	**EDR**	**63M4**		56	499
	5.1	335	262.93	19900	4.4	-		**FAF**	**77**	**EDR**	**63M4**		62	498
	5.9	290	225.79	20000	5.2	-		**F**	**77**	**EDR**	**63M4**		60	497
								FF	**77**	**EDR**	**63M4**		70	498
	5.8	290	228.99	13000	2.8	-		**FA**	**67**	**EDR**	**63M4**		32	494
	6.8	250	195.39	13000	3.3	-		**FAF**	**67**	**EDR**	**63M4**		38	493
	7.8	220	170.85	13000	3.7	-		**F**	**67**	**EDR**	**63M4**		35	492
								FF	**67**	**EDR**	**63M4**		41	493
	6.7	255	199.70	11400	2.3	-								
	7.3	235	183.60	11500	2.5	-		**FA**	**57**	**EDR**	**63M4**		28	489
	8.5	200	157.09	11500	3.0	-		**FAF**	**57**	**EDR**	**63M4**		34	488
	9.8	175	136.16	11500	3.4	-		**F**	**57**	**EDR**	**63M4**		28	487
	10	164	127.27	11500	3.7	-		**FF**	**57**	**EDR**	**63M4**		35	488
	12	142	110.01	11500	4.2	-								
	7.0	245	190.76	7490	1.65	-								
	7.6	225	175.38	7620	1.75	-		**FA**	**47**	**EDR**	**63M4**		21	484
	8.9	193	150.06	7810	2.1	-		**FAF**	**47**	**EDR**	**63M4**		24	483
	10	168	130.07	7930	2.4	-		**F**	**47**	**EDR**	**63M4**		22	482
	11	156	121.57	7980	2.6	-		**FF**	**47**	**EDR**	**63M4**		25	483
	10	166	128.51	4720	1.20	-								
	11	152	117.88	4860	1.30	-								
	13	129	100.36	5060	1.55	-		**FA**	**37**	**EDR**	**63M4**		16	479
	15	111	86.53	5180	1.80	-		**FAF**	**37**	**EDR**	**63M4**		18	478
	17	104	80.65	5230	1.95	-		**F**	**37**	**EDR**	**63M4**		16	477
	19	91	70.50	5310	2.2	-		**FF**	**37**	**EDR**	**63M4**		18	478
	20	85	66.09	5340	2.4	-								
	23	75	58.32	5380	2.7	-								
	14	122	94.76	4500	1.05	-	X							
	15	114	88.32	4500	1.15	-	X							
	17	99	77.21	4500	1.30	-	X							
	18	93	72.37	4500	1.40	-	X							
	21	82	63.86	4500	1.60	-	X	**FA**	**27**	**EDR**	**63M4**		9.9	475
	24	73	56.62	4500	1.80	-	X	**FAF**	**27**	**EDR**	**63M4**		11	474
	27	65	50.19	4500	2.0	-	X	**F**	**27**	**EDR**	**63M4**		10	473
	29	60	46.78	4500	2.2	-	X	**FF**	**27**	**EDR**	**63M4**		11	474
	33	53	40.89	4400	2.5	-	X							
	35	49	38.33	4320	2.6	-	X							
	39	44	33.83	4180	3.0	-	X							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.18	**45**	38	29.56	4030	3.4	-	X						
	49	35	27.18	3940	3.7	-	X						
	57	30	23.25	3770	4.4	-	X						
	66	26	20.15	3610	5.0	-	X						
	71	24	18.84	3540	5.4	-	X						
	82	21	16.28	3390	6.2	-	X						
	96	18	13.84	3230	7.2	-	X						
	108	16	12.35	3120	7.9	-	X	**FA**	**27**	**EDR**	**63M4**	9.6	475
	127	14	10.55	2980	9.0	-	X	**FAF**	**27**	**EDR**	**63M4**	10	474
	135	13	9.88	2920	9.6	-	X	**F**	**27**	**EDR**	**63M4**	10	473
	142	12	9.40	2860	8.7	-	X	**FF**	**27**	**EDR**	**63M4**	11	474
	164	10	8.13	2740	9.4	-	X						
	193	8.9	6.91	2600	10	-	X						
	216	7.9	6.17	2510	11	-	X						
	253	6.8	5.27	2390	13	-	X						
	271	6.4	4.93	2340	13	-	X						
	321	5.4	4.16	2220	15	-	X						
0.25	**0.18**	10500	7643	90000	1.15	-							
	0.21	9610	6715	90000	1.25	-		**FA**	**127R77**	**EDRS**	**71S4**	430	527
	0.24	8480	5925	90000	1.40	-		**FAF**	**127R77**	**EDRS**	**71S4**	465	527
	0.27	7270	5153	90000	1.65	-		**F**	**127R77**	**EDRS**	**71S4**	465	527
	0.31	6290	4533	90000	1.90	-		**FF**	**127R77**	**EDRS**	**71S4**	510	527
	0.27	7200	5223	51100	1.05	-		**FA**	**107R77**	**EDRS**	**71S4**	275	527
	0.31	6530	4567	52700	1.15	-	X	**FAF**	**107R77**	**EDRS**	**71S4**	300	527
	0.40	4970	3521	56400	1.55	-		**F**	**107R77**	**EDRS**	**71S4**	295	527
								FF	**107R77**	**EDRS**	**71S4**	320	527
	0.46	4380	3037	57600	1.75	-							
	0.51	3980	2756	58500	1.95	-		**FA**	**107R77**	**EDRS**	**71S4**	275	527
	0.59	3420	2369	59600	2.2	-		**FAF**	**107R77**	**EDRS**	**71S4**	295	527
	0.68	2980	2068	60400	2.6	-		**F**	**107R77**	**EDRS**	**71S4**	295	527
	0.88	2280	1597	61700	3.4	-		**FF**	**107R77**	**EDRS**	**71S4**	320	527
	1.0	1970	1401	62200	3.9	-							
	0.48	4290	2907	29900	1.00	-							
	0.55	3840	2553	31200	1.10	-							
	0.63	3380	2245	32400	1.25	-							
	0.71	2940	1970	33400	1.45	-		**FA**	**97R57**	**EDRS**	**71S4**	185	527
	0.82	2600	1722	34200	1.65	-		**FAF**	**97R57**	**EDRS**	**71S4**	210	527
	0.92	2300	1527	34800	1.85	-		**F**	**97R57**	**EDRS**	**71S4**	195	527
	1.1	1920	1327	35500	2.2	-		**FF**	**97R57**	**EDRS**	**71S4**	225	527
	1.2	1760	1171	35800	2.4	-							
	1.4	1540	1022	36200	2.8	-							
	0.73	2880	1930	23400	1.05	-							
	0.82	2570	1709	24500	1.15	-							
	0.94	2250	1493	25600	1.35	-							
	1.1	1880	1300	26800	1.60	-		**FA**	**87R57**	**EDRS**	**71S4**	120	527
	1.2	1680	1148	27300	1.80	-		**FAF**	**87R57**	**EDRS**	**71S4**	135	527
	1.4	1460	1010	27900	2.0	-		**F**	**87R57**	**EDRS**	**71S4**	125	527
	1.6	1300	887	28300	2.3	-		**FF**	**87R57**	**EDRS**	**71S4**	140	527
	1.8	1120	780	28700	2.7	-							
	2.1	950	674	29100	3.1	-							
	1.5	1370	910	16500	1.10	-							
	1.7	1190	810	17500	1.25	-							
	2.0	1040	710	18100	1.45	-		**FA**	**77R37**	**EDRS**	**71S4**	68	527
	2.3	920	615	18600	1.65	-		**FAF**	**77R37**	**EDRS**	**71S4**	74	527
	2.6	800	538	19000	1.85	-		**F**	**77R37**	**EDRS**	**71S4**	72	527
	2.9	715	480	19200	2.1	-		**FF**	**77R37**	**EDRS**	**71S4**	82	527
	3.4	605	413	19500	2.5	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.25	**2.8**	745	509	10900	1.10	-		**FA**	**67R37**	**EDRS**	**71S4**	46	527
	3.2	640	437	11600	1.25	-		**FAF**	**67R37**	**EDRS**	**71S4**	52	527
								F	**67R37**	**EDRS**	**71S4**	48	527
								FF	**67R37**	**EDRS**	**71S4**	55	527
	2.8	765	500	10800	1.05	-							
	3.1	695	454	11300	1.15	-							
	3.6	600	392	11900	1.35	-		**FA**	**67R37**	**EDRS**	**71S4**	44	527
	4.2	505	333	12400	1.60	-		**FAF**	**67R37**	**EDRS**	**71S4**	51	527
	4.7	445	297	12600	1.85	-		**F**	**67R37**	**EDRS**	**71S4**	47	527
	5.4	390	261	12800	2.1	-		**FF**	**67R37**	**EDRS**	**71S4**	53	527
	5.9	350	238	13000	2.3	-							
	3.6	570	386	9420	1.05	-		**FA**	**57R37**	**EDRS**	**71S4**	42	527
	4.2	495	338	9950	1.20	-		**FAF**	**57R37**	**EDRS**	**71S4**	47	527
	5.5	375	255	10700	1.60	-		**F**	**57R37**	**EDRS**	**71S4**	42	527
								FF	**57R37**	**EDRS**	**71S4**	48	527
	3.7	585	382	9280	1.00	-							
	4.2	505	330	9880	1.20	-							
	4.7	455	298	10200	1.30	-		**FA**	**57R37**	**EDRS**	**71S4**	41	527
	5.4	400	262	10600	1.50	-		**FAF**	**57R37**	**EDRS**	**71S4**	47	527
	6.2	340	226	10900	1.75	-		**F**	**57R37**	**EDRS**	**71S4**	41	527
	7.0	295	200	11100	2.0	-		**FF**	**57R37**	**EDRS**	**71S4**	48	527
	8.3	250	170	11400	2.4	-							
	5.6	370	249	6310	1.10	-		**FA**	**47R17**	**EDRS**	**71S4**	26	527
	6.4	325	218	6780	1.20	-		**FAF**	**47R17**	**EDRS**	**71S4**	29	527
	7.3	290	193	7150	1.40	-		**F**	**47R17**	**EDRS**	**71S4**	27	527
	8.1	260	175	7360	1.50	-		**FF**	**47R17**	**EDRS**	**71S4**	30	527
	5.6	380	253	6180	1.05	-							
	6.5	335	217	6710	1.20	-		**FA**	**47R17**	**EDRS**	**71S4**	26	527
	7.4	290	190	7130	1.35	-		**FAF**	**47R17**	**EDRS**	**71S4**	28	527
	7.9	270	178	7280	1.40	-		**F**	**47R17**	**EDRS**	**71S4**	26	527
	9.4	225	149	7610	1.60	-		**FF**	**47R17**	**EDRS**	**71S4**	30	527
	11	200	131	7770	1.80	-							
	11	200	129	4300	1.00	-		**FA**	**37R17**	**EDRS**	**71S4**	21	527
	12	182	118	4530	1.10	-		**FAF**	**37R17**	**EDRS**	**71S4**	23	527
	14	151	98	4870	1.35	-		**F**	**37R17**	**EDRS**	**71S4**	22	527
	16	132	87	5030	1.50	-		**FF**	**37R17**	**EDRS**	**71S4**	24	527
	5.0	475	281.71	19700	3.1	-							
	5.3	445	262.93	19800	3.4	-		**FA**	**77**	**EDRS**	**71S4**	58	499
	6.2	380	225.79	19900	3.9	-		**FAF**	**77**	**EDRS**	**71S4**	65	498
	7.1	335	198.31	19900	4.4	-		**F**	**77**	**EDRS**	**71S4**	62	497
	7.5	320	188.40	20000	4.7	-		**FF**	**77**	**EDRS**	**71S4**	73	498
	6.1	385	228.99	12900	2.1	-							
	7.2	330	195.39	13000	2.5	-		**FA**	**67**	**EDRS**	**71S4**	36	494
	8.2	290	170.85	13000	2.8	-		**FAF**	**67**	**EDRS**	**71S4**	42	493
	8.7	275	162.31	13000	3.0	-		**F**	**67**	**EDRS**	**71S4**	39	492
	9.9	240	142.40	13000	3.4	-		**FF**	**67**	**EDRS**	**71S4**	45	493
	7.0	335	199.70	10900	1.75	-							
	7.6	310	183.60	11100	1.90	-		**FA**	**57**	**EDRS**	**71S4**	32	489
	8.9	265	157.09	11300	2.2	-		**FAF**	**57**	**EDRS**	**71S4**	37	488
	10	230	136.16	11500	2.6	-		**F**	**57**	**EDRS**	**71S4**	32	487
	11	215	127.27	11500	2.8	-		**FF**	**57**	**EDRS**	**71S4**	39	488
	13	187	110.01	11500	3.2	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.25	**7.4**	320	190.76	6830	1.25	-								
	8.0	295	175.38	7080	1.35	-								
	9.4	255	150.06	7420	1.55	-		**FA**	**47**	**EDRS**	**71S4**		24	484
	11	220	130.07	7650	1.80	-		**FAF**	**47**	**EDRS**	**71S4**		26	483
	12	205	121.57	7740	1.95	-		**F**	**47**	**EDRS**	**71S4**		24	482
	13	179	105.09	7880	2.2	-		**FF**	**47**	**EDRS**	**71S4**		27	483
	16	152	89.29	8000	2.6	-								
	12	200	117.88	4290	1.00	-								
	14	170	100.36	4670	1.15	-								
	16	147	86.53	4910	1.35	-								
	17	137	80.65	4990	1.45	-								
	20	120	70.50	5130	1.65	-								
	21	112	66.09	5180	1.80	-		**FA**	**37**	**EDRS**	**71S4**		19	479
	24	99	58.32	5260	2.0	-		**FAF**	**37**	**EDRS**	**71S4**		20	478
	26	93	54.54	5300	2.2	-		**F**	**37**	**EDRS**	**71S4**		19	477
	27	88	51.70	5320	2.3	-		**FF**	**37**	**EDRS**	**71S4**		21	478
	30	80	47.02	5360	2.5	-								
	32	74	43.83	5380	2.7	-								
	37	65	38.31	5420	3.1	-								
	39	61	35.91	5440	3.2	-								
	44	54	31.69	5460	3.6	-								
	19	123	72.37	4500	1.05	-	X							
	22	108	63.86	4500	1.20	-	X							
	25	96	56.62	4480	1.35	-	X	**FA**	**27**	**EDRS**	**71S4**		13	475
	28	85	50.19	4370	1.50	-	X	**FAF**	**27**	**EDRS**	**71S4**		13	474
	30	80	46.78	4300	1.65	-	X	**F**	**27**	**EDRS**	**71S4**		13	473
	34	70	40.89	4170	1.85	-	X	**FF**	**27**	**EDRS**	**71S4**		14	474
	37	65	38.33	4100	2.0	-	X							
	42	58	33.83	3980	2.3	-	X							
	48	50	29.56	3850	2.6	-	X							
	52	46	27.18	3760	2.8	-	X							
	60	40	23.25	3610	3.3	-	X							
	70	34	20.15	3480	3.8	-	X							
	75	32	18.84	3410	4.1	-	X							
	86	28	16.28	3270	4.7	-	X							
	102	24	13.84	3120	5.5	-	X							
	114	21	12.35	3020	6.0	-	X	**FA**	**27**	**EDRS**	**71S4**		12	475
	133	18	10.55	2890	6.9	-	X	**FAF**	**27**	**EDRS**	**71S4**		13	474
	142	17	9.88	2830	7.3	-	X	**F**	**27**	**EDRS**	**71S4**		13	473
	149	16	9.40	2770	6.6	-	X	**FF**	**27**	**EDRS**	**71S4**		14	474
	173	14	8.13	2660	7.2	-	X							
	203	12	6.91	2530	8.0	-	X							
	228	10	6.17	2440	8.6	-	X							
	267	9.0	5.27	2330	9.6	-	X							
	285	8.4	4.93	2280	10	-	X							
	338	7.1	4.16	2160	11	-	X							
0.37	**0.27**	11400	5153	90000	1.05	-								
	0.30	9970	4533	90000	1.20	-		**FA**	**127R77**	**EDRS**	**71M4**		430	527
	0.35	8720	3926	90000	1.40	-		**FAF**	**127R77**	**EDRS**	**71M4**		470	527
	0.40	7600	3454	90000	1.60	-		**F**	**127R77**	**EDRS**	**71M4**		465	527
	0.45	6640	3031	90000	1.80	-		**FF**	**127R77**	**EDRS**	**71M4**		510	527
	0.45	6870	3037	51900	1.10	-								
	0.50	6240	2756	53500	1.25	-		**FA**	**107R77**	**EDRS**	**71M4**		280	527
	0.58	5360	2369	55500	1.45	-		**FAF**	**107R77**	**EDRS**	**71M4**		300	527
	0.66	4680	2068	57000	1.65	-		**F**	**107R77**	**EDRS**	**71M4**		295	527
	0.86	3590	1597	59200	2.1	-		**FF**	**107R77**	**EDRS**	**71M4**		320	527

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.37	**0.80**	4010	1722	30700	1.05	-							
	0.90	3550	1527	32000	1.20	-	**FA**	**97R57**	**EDRS**	**71M4**		190	527
	1.0	3010	1327	33300	1.45	-	**FAF**	**97R57**	**EDRS**	**71M4**		210	527
	1.2	2720	1171	33900	1.60	-	**F**	**97R57**	**EDRS**	**71M4**		195	527
	1.3	2380	1022	34700	1.80	-	**FF**	**97R57**	**EDRS**	**71M4**		230	527
	1.5	2010	898	35400	2.1	-							
	1.1	2940	1300	21600	1.00	-							
	1.2	2620	1148	24400	1.15	-							
	1.4	2290	1010	25500	1.30	-							
	1.6	2020	887	26400	1.50	-	**FA**	**87R57**	**EDRS**	**71M4**		125	527
	1.8	1760	780	27100	1.70	-	**FAF**	**87R57**	**EDRS**	**71M4**		135	527
	2.0	1510	674	27800	2.00	-	**F**	**87R57**	**EDRS**	**71M4**		130	527
	2.3	1380	609	28100	2.2	-	**FF**	**87R57**	**EDRS**	**71M4**		145	527
	2.7	1160	515	28600	2.6	-							
	3.0	1020	452	28900	2.9	-							
	2.2	1420	615	16200	1.05	-							
	2.6	1240	538	17200	1.20	-	**FA**	**77R37**	**EDRS**	**71M4**		69	527
	2.9	1110	480	17900	1.35	-	**FAF**	**77R37**	**EDRS**	**71M4**		76	527
	3.3	940	413	18500	1.60	-	**F**	**77R37**	**EDRS**	**71M4**		73	527
	3.8	840	367	18800	1.75	-	**FF**	**77R37**	**EDRS**	**71M4**		83	527
	4.3	750	323	19100	2.00	-							
	4.1	790	338	10600	1.05	-	**FA**	**67R37**	**EDRS**	**71M4**		47	527
	4.5	705	305	11200	1.15	-	**FAF**	**67R37**	**EDRS**	**71M4**		53	527
	5.4	590	257	11900	1.40	-	**F**	**67R37**	**EDRS**	**71M4**		50	527
	6.0	520	231	12300	1.55	-	**FF**	**67R37**	**EDRS**	**71M4**		56	527
	5.4	585	255	9310	1.05	-	**FA**	**57R37**	**EDRS**	**71M4**		43	527
	6.8	455	201	10200	1.30	-	**FAF**	**57R37**	**EDRS**	**71M4**		48	527
	7.6	410	181	10500	1.45	-	**F**	**57R37**	**EDRS**	**71M4**		43	527
							FF	**57R37**	**EDRS**	**71M4**		50	527
	6.1	525	226	9720	1.15	-							
	6.9	460	200	10200	1.30	-	**FA**	**57R37**	**EDRS**	**71M4**		42	527
	8.1	395	170	10600	1.50	-	**FAF**	**57R37**	**EDRS**	**71M4**		48	527
	9.0	350	152	10900	1.70	-	**F**	**57R37**	**EDRS**	**71M4**		42	527
	10	305	134	11100	1.95	-	**FF**	**57R37**	**EDRS**	**71M4**		49	527
	9.4	340	147	6640	1.15	-	**FA**	**47R17**	**EDRS**	**71M4**		28	527
	11	300	130	7040	1.30	-	**FAF**	**47R17**	**EDRS**	**71M4**		30	527
							F	**47R17**	**EDRS**	**71M4**		28	527
							FF	**47R17**	**EDRS**	**71M4**		32	527
	5.1	695	270.68	29600	4.3	-	**FA**	**87**	**EDRS**	**71M4**		100	504
	5.4	655	255.37	29600	4.6	-	**FAF**	**87**	**EDRS**	**71M4**		115	503
	6.0	585	228.93	29800	5.1	-	**F**	**87**	**EDRS**	**71M4**		105	502
							FF	**87**	**EDRS**	**71M4**		120	503
	4.9	720	281.71	19200	2.1	-							
	5.2	675	262.93	19300	2.2	-							
	6.1	580	225.79	19500	2.6	-	**FA**	**77**	**EDRS**	**71M4**		61	499
	6.9	505	198.31	19700	2.9	-	**FAF**	**77**	**EDRS**	**71M4**		68	498
	7.3	480	188.40	19700	3.1	-	**F**	**77**	**EDRS**	**71M4**		65	497
	8.3	425	166.47	19800	3.5	-	**FF**	**77**	**EDRS**	**71M4**		75	498
	9.7	365	142.27	19900	4.1	-							
	6.0	585	228.99	12000	1.40	-							
	7.0	500	195.39	12400	1.65	-	**FA**	**67**	**EDRS**	**71M4**		38	494
	8.0	435	170.85	12700	1.85	-	**FAF**	**67**	**EDRS**	**71M4**		45	493
	8.5	415	162.31	12800	1.95	-	**F**	**67**	**EDRS**	**71M4**		41	492
	9.7	365	142.40	12900	2.2	-	**FF**	**67**	**EDRS**	**71M4**		47	493
	11	310	120.79	13000	2.6	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.37	**6.9**	510	199.70	9830	1.15	-								
	7.5	470	183.60	10100	1.25	-								
	8.8	400	157.09	10500	1.50	-		**FA**	**57**	**EDRS**	**71M4**		34	489
	10	345	136.16	10900	1.70	-		**FAF**	**57**	**EDRS**	**71M4**		40	488
	11	325	127.27	11000	1.85	-		**F**	**57**	**EDRS**	**71M4**		35	487
	12	280	110.01	11200	2.1	-		**FF**	**57**	**EDRS**	**71M4**		41	488
	15	240	93.47	11400	2.5	-								
	16	210	83.46	11500	2.8	-								
	9.2	385	150.06	6120	1.05	-								
	11	330	130.07	6730	1.20	-								
	13	270	105.09	7310	1.50	-		**FA**	**47**	**EDRS**	**71M4**		25	484
	15	225	89.29	7600	1.75	-		**FAF**	**47**	**EDRS**	**71M4**		27	483
	17	200	79.72	7740	1.95	-		**F**	**47**	**EDRS**	**71M4**		25	482
	20	175	68.09	7900	2.3	-		**FF**	**47**	**EDRS**	**71M4**		29	483
	21	168	65.36	7930	2.4	-								
	20	181	70.50	4540	1.10	-								
	21	170	66.09	4680	1.20	-								
	24	150	58.32	4880	1.35	-								
	25	140	54.54	4970	1.45	-								
	27	133	51.70	5030	1.50	-		**FA**	**37**	**EDRS**	**71M4**		20	479
	29	121	47.02	5120	1.65	-		**FAF**	**37**	**EDRS**	**71M4**		21	478
	31	113	43.83	5180	1.80	-		**F**	**37**	**EDRS**	**71M4**		20	477
	36	98	38.31	5260	2.0	-		**FF**	**37**	**EDRS**	**71M4**		22	478
	38	92	35.91	5300	2.2	-								
	43	81	31.69	5310	2.4	-								
	49	72	28.09	5150	2.6	-								
	58	61	23.88	4930	2.9	-								
	27	129	50.19	4020	1.00	-	X							
	29	120	46.78	3970	1.10	-	X	**FA**	**27**	**EDRS**	**71M4**		14	475
	34	105	40.89	3890	1.25	-	X	**FAF**	**27**	**EDRS**	**71M4**		14	474
	36	98	38.33	3840	1.30	-	X	**F**	**27**	**EDRS**	**71M4**		14	473
	41	87	33.83	3750	1.50	-	X	**FF**	**27**	**EDRS**	**71M4**		15	474
	47	76	29.56	3650	1.70	-	X							
	51	70	27.18	3580	1.85	-	X							
	59	60	23.25	3460	2.2	-	X							
	68	52	20.15	3350	2.5	-	X							
	73	48	18.84	3290	2.7	-	X							
	84	42	16.28	3170	3.1	-	X							
	99	36	13.84	3040	3.6	-	X							
	111	32	12.35	2950	4.0	-	X	**FA**	**27**	**EDRS**	**71M4**		13	475
	130	27	10.55	2830	4.5	-	X	**FAF**	**27**	**EDRS**	**71M4**		14	474
	139	25	9.88	2780	4.8	-	X	**F**	**27**	**EDRS**	**71M4**		14	473
	146	24	9.40	2710	4.3	-	X	**FF**	**27**	**EDRS**	**71M4**		15	474
	169	21	8.13	2610	4.7	-	X							
	199	18	6.91	2490	5.2	-	X							
	223	16	6.17	2410	5.7	-	X							
	261	14	5.27	2300	6.4	-	X							
	279	13	4.93	2260	6.6	-	X							
	331	11	4.16	2140	7.4	-	X							
0.55	**0.26**	16300	5404	104800	1.10	-		**FA**	**157R97**	**EDRS**	**80S4**		770	527
	0.51	8400	2780	119300	2.1	-		**FAF**	**157R97**	**EDRS**	**80S4**		830	527
								F	**157R97**	**EDRS**	**80S4**		790	527
								FF	**157R97**	**EDRS**	**80S4**		900	527
	0.58	7430	2427	120000	2.4	-		**FA**	**157R97**	**EDRS**	**80S4**		770	527
	0.85	5290	1674	120000	3.4	-		**FAF**	**157R97**	**EDRS**	**80S4**		820	527
	1.1	4070	1308	120000	4.4	-		**F**	**157R97**	**EDRS**	**80S4**		790	527
	1.2	3570	1169	120000	5.0	-		**FF**	**157R97**	**EDRS**	**80S4**		890	527

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.55	**0.41**	11200	3454	90000	1.05	-		**FA**	**127R77**	**EDRS**	**80S4**	430	527
	0.47	9850	3031	90000	1.20	-		**FAF**	**127R77**	**EDRS**	**80S4**	470	527
								F	**127R77**	**EDRS**	**80S4**	470	527
								FF	**127R77**	**EDRS**	**80S4**	510	527
	0.68	6900	2068	51800	1.10	-							
	0.77	5930	1826	54200	1.30	-							
	0.89	5300	1597	55600	1.45	-							
	1.0	4620	1401	57100	1.65	-		**FA**	**107R77**	**EDRS**	**80S4**	280	527
	1.1	4030	1243	58400	1.90	-		**FAF**	**107R77**	**EDRS**	**80S4**	300	527
	1.3	3610	1087	59200	2.1	-		**F**	**107R77**	**EDRS**	**80S4**	295	527
	1.5	3080	950	60200	2.5	-		**FF**	**107R77**	**EDRS**	**80S4**	325	527
	1.7	2680	834	61000	2.9	-							
	2.2	2090	640	62000	3.7	-							
	1.2	3980	1171	30800	1.10	-							
	1.4	3480	1022	32200	1.25	-							
	1.6	2970	898	33400	1.45	-							
	1.8	2630	784	34100	1.65	-		**FA**	**97R57**	**EDRS**	**80S4**	190	527
	2.0	2280	690	34800	1.90	-		**FAF**	**97R57**	**EDRS**	**80S4**	210	527
	2.3	2010	605	35400	2.1	-		**F**	**97R57**	**EDRS**	**80S4**	195	527
	2.7	1750	529	35800	2.4	-		**FF**	**97R57**	**EDRS**	**80S4**	230	527
	3.0	1540	467	36200	2.8	-							
	3.5	1320	406	36500	3.2	-							
	3.9	1190	363	36800	3.6	-							
	1.6	2980	887	20500	1.00	-							
	1.8	2600	780	24400	1.15	-							
	2.1	2230	674	25700	1.35	-		**FA**	**87R57**	**EDRS**	**80S4**	125	527
	2.3	2030	609	26300	1.45	-		**FAF**	**87R57**	**EDRS**	**80S4**	135	527
	2.8	1710	515	27200	1.75	-		**F**	**87R57**	**EDRS**	**80S4**	130	527
	3.1	1510	452	27800	2.00	-		**FF**	**87R57**	**EDRS**	**80S4**	145	527
	4.1	1130	345	28700	2.6	-							
	3.4	1380	413	16400	1.10	-		**FA**	**77R37**	**EDRS**	**80S4**	72	527
	3.9	1240	367	17200	1.20	-		**FAF**	**77R37**	**EDRS**	**80S4**	78	527
	4.4	1090	323	17900	1.35	-		**F**	**77R37**	**EDRS**	**80S4**	76	527
								FF	**77R37**	**EDRS**	**80S4**	86	527
	6.1	770	231	10700	1.05	-		**FA**	**67R37**	**EDRS**	**80S4**	50	527
	6.9	690	205	11300	1.20	-		**FAF**	**67R37**	**EDRS**	**80S4**	56	527
	8.1	585	175	12000	1.40	-		**F**	**67R37**	**EDRS**	**80S4**	52	527
								FF	**67R37**	**EDRS**	**80S4**	59	527
	5.2	1000	270.68	29000	3.0	-		**FA**	**87**	**EDRS**	**80S4**	100	504
	5.5	940	255.37	29100	3.2	-		**FAF**	**87**	**EDRS**	**80S4**	115	503
	6.2	840	228.93	29300	3.5	-		**F**	**87**	**EDRS**	**80S4**	105	502
	7.2	730	197.20	29500	4.1	-		**FF**	**87**	**EDRS**	**80S4**	120	503
	7.9	665	179.97	29600	4.5	-							
	6.3	830	225.79	18900	1.80	-							
	7.1	735	198.31	19200	2.0	-							
	7.5	695	188.40	19300	2.2	-		**FA**	**77**	**EDRS**	**80S4**	62	499
	8.5	615	166.47	19500	2.4	-		**FAF**	**77**	**EDRS**	**80S4**	68	498
	10.0	525	142.27	19600	2.8	-		**F**	**77**	**EDRS**	**80S4**	66	497
	11	480	130.42	19700	3.1	-		**FF**	**77**	**EDRS**	**80S4**	76	498
	12	420	114.45	19800	3.5	-							
	13	400	108.46*	19900	3.7	-							
	15	350	94.93	19900	4.3	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.55	**7.2**	725	195.39	11100	1.15	-							
	8.3	630	170.85	11700	1.30	-							
	8.7	600	162.31	11900	1.35	-		**FA**	**67**	**EDRS**	**80S4**	39	494
	9.9	525	142.40	12300	1.55	-		**FAF**	**67**	**EDRS**	**80S4**	45	493
	12	445	120.79	12600	1.85	-		**F**	**67**	**EDRS**	**80S4**	42	492
	13	400	109.04	12800	2.0	-		**FF**	**67**	**EDRS**	**80S4**	48	493
	15	355	95.94	13000	2.3	-							
	16	335	90.59	13000	2.4	-							
	18	295	79.76	13000	2.7	-							
	9.0	580	157.09	9330	1.05	-							
	10	505	136.16	9890	1.20	-							
	11	470	127.27	10100	1.25	-							
	13	405	110.01	10500	1.45	-		**FA**	**57**	**EDRS**	**80S4**	35	489
	15	345	93.47	10900	1.75	-		**FAF**	**57**	**EDRS**	**80S4**	41	488
	17	305	83.46	11100	1.95	-		**F**	**57**	**EDRS**	**80S4**	35	487
	19	270	72.98	11300	2.2	-		**FF**	**57**	**EDRS**	**80S4**	42	488
	21	250	68.22	11400	2.4	-							
	24	215	58.97	11500	2.7	-							
	13	390	105.09	6060	1.05	-	X						
	16	330	89.29	6760	1.20	-	X						
	18	295	79.72	7100	1.35	-	X	**FA**	**47**	**EDRS**	**80S4**	28	484
	21	250	68.09	7440	1.60	-	X	**FAF**	**47**	**EDRS**	**80S4**	30	483
	22	240	65.36	7510	1.65	-	X	**F**	**47**	**EDRS**	**80S4**	28	482
	25	205	56.49	7720	1.90	-	X	**FF**	**47**	**EDRS**	**80S4**	31	483
	29	178	48.00*	7880	2.2	-	X						
	33	159	42.86	7970	2.5	-	X						
	27	192	51.70	4410	1.05	-	X						
	30	174	47.02	4620	1.15	-	X						
	32	163	43.83	4750	1.25	-	X	**FA**	**37**	**EDRS**	**80S4**	23	479
	37	142	38.31	4950	1.40	-	X	**FAF**	**37**	**EDRS**	**80S4**	24	478
	39	133	35.91	5020	1.50	-	X	**F**	**37**	**EDRS**	**80S4**	23	477
	45	118	31.69	4950	1.60	-	X	**FF**	**37**	**EDRS**	**80S4**	25	478
	50	104	28.09	4830	1.75	-	X						
	59	89	23.88	4660	2.0	-	X						
	60	88	23.63	4650	2.3	-	X						
	69	76	20.57	4500	2.5	-	X	**FA**	**37**	**EDRS**	**80S4**	23	479
	73	72	19.27	4430	2.6	-	X	**FAF**	**37**	**EDRS**	**80S4**	24	478
	83	63	17.03	4290	2.9	-	X	**F**	**37**	**EDRS**	**80S4**	23	477
	99	53	14.33	4110	3.2	-	X	**FF**	**37**	**EDRS**	**80S4**	25	478
	61	86	23.25	3190	1.50	-	X						
	70	75	20.15	3110	1.75	-	X						
	75	70	18.84	3070	1.85	-	X						
	87	60	16.28	2980	2.2	-	X						
	102	51	13.84	2870	2.5	-	X						
	115	46	12.35	2800	2.8	-	X						
	134	39	10.55	2690	3.1	-	X	**FA**	**27**	**EDRS**	**80S4**	16	475
	143	37	9.88	2650	3.3	-	X	**FAF**	**27**	**EDRS**	**80S4**	17	474
	150	35	9.40	2580	3.0	-	X	**F**	**27**	**EDRS**	**80S4**	17	473
	174	30	8.13	2490	3.3	-	X	**FF**	**27**	**EDRS**	**80S4**	18	474
	205	26	6.91	2390	3.6	-	X						
	229	23	6.17	2320	3.9	-	X						
	269	20	5.27	2220	4.4	-	X						
	287	18	4.93	2180	4.6	-	X						
	340	15	4.16	2080	5.1	-	X						
0.75	**0.52**	11700	2780	114600	1.55	-		**FA**	**157R97**	**EDRE**	**80M4**	770	527
								FAF	**157R97**	**EDRE**	**80M4**	830	527
								F	**157R97**	**EDRE**	**80M4**	790	527
								FF	**157R97**	**EDRE**	**80M4**	900	527

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.75	**0.59**	10300	2427	116800	1.75	-		**FA**	**157R97**	**EDRE**	**80M4**		770	527
	0.86	7310	1674	120000	2.5	-		**FAF**	**157R97**	**EDRE**	**80M4**		830	527
	1.1	5640	1308	120000	3.2	-		**F**	**157R97**	**EDRE**	**80M4**		790	527
	1.2	4980	1169	120000	3.6	-		**FF**	**157R97**	**EDRE**	**80M4**		900	527
	0.61	10600	2357	90000	1.15	-		**FA**	**127R77**	**EDRE**	**80M4**		435	527
	0.70	9150	2038	90000	1.30	-		**FAF**	**127R77**	**EDRE**	**80M4**		470	527
	0.80	7960	1784	90000	1.50	-		**F**	**127R77**	**EDRE**	**80M4**		470	527
	0.89	7150	1606	90000	1.70	-		**FF**	**127R77**	**EDRE**	**80M4**		510	527
	0.90	7220	1597	51000	1.05	-								
	1.0	6310	1401	53300	1.20	-	X							
	1.2	5530	1243	55100	1.40	-		**FA**	**107R77**	**EDRE**	**80M4**		280	527
	1.3	4920	1087	56500	1.55	-		**FAF**	**107R77**	**EDRE**	**80M4**		305	527
	1.5	4220	950	58000	1.80	-		**F**	**107R77**	**EDRE**	**80M4**		300	527
	1.7	3680	834	59100	2.1	-		**FF**	**107R77**	**EDRE**	**80M4**		325	527
	2.2	2860	640	60600	2.7	-								
	3.3	1940	436	62300	3.9	-								
	1.6	4050	898	30600	1.05	-								
	1.8	3580	784	31900	1.20	-								
	2.1	3110	690	33000	1.40	-		**FA**	**97R57**	**EDRE**	**80M4**		190	527
	2.4	2740	605	33900	1.55	-		**FAF**	**97R57**	**EDRE**	**80M4**		215	527
	2.7	2380	529	34600	1.80	-		**F**	**97R57**	**EDRE**	**80M4**		200	527
	3.1	2100	467	35200	2.0	-		**FF**	**97R57**	**EDRE**	**80M4**		230	527
	3.5	1810	406	35700	2.4	-								
	4.0	1620	363	36100	2.6	-								
	2.4	2760	609	23800	1.10	-		**FA**	**87R57**	**EDRE**	**80M4**		125	527
	2.8	2330	515	25400	1.30	-		**FAF**	**87R57**	**EDRE**	**80M4**		140	527
	3.2	2050	452	26300	1.45	-		**F**	**87R57**	**EDRE**	**80M4**		130	527
	4.2	1540	345	27700	1.95	-		**FF**	**87R57**	**EDRE**	**80M4**		150	527
	4.4	1480	323	15800	1.00	-		**FA**	**77R37**	**EDRE**	**80M4**		75	527
	5.1	1280	280	17000	1.15	-		**FAF**	**77R37**	**EDRE**	**80M4**		81	527
								F	**77R37**	**EDRE**	**80M4**		78	527
								FF	**77R37**	**EDRE**	**80M4**		89	527
	5.2	1380	276.77	36500	3.1	-		**FA**	**97**	**EDRE**	**80M4**		170	509
	5.7	1260	253.41	36600	3.4	-		**FAF**	**97**	**EDRE**	**80M4**		190	508
	6.4	1110	223.88	36900	3.8	-		**F**	**97**	**EDRE**	**80M4**		175	507
								FF	**97**	**EDRE**	**80M4**		210	508
	5.3	1350	270.68	28200	2.2	-								
	5.6	1270	255.37	28400	2.4	-		**FA**	**87**	**EDRE**	**80M4**		105	504
	6.3	1140	228.93	28700	2.6	-		**FAF**	**87**	**EDRE**	**80M4**		115	503
	7.3	980	197.20	29000	3.0	-		**F**	**87**	**EDRE**	**80M4**		110	502
	8.0	890	179.97	29200	3.3	-		**FF**	**87**	**EDRE**	**80M4**		125	503
	9.0	795	159.61	29400	3.8	-								
	6.4	1120	225.79	17800	1.35	-								
	7.2	980	198.31	18300	1.50	-								
	7.6	940	188.40	18500	1.60	-		**FA**	**77**	**EDRE**	**80M4**		65	499
	8.6	830	166.47	18900	1.80	-		**FAF**	**77**	**EDRE**	**80M4**		71	498
	10	710	142.27	19200	2.1	-		**F**	**77**	**EDRE**	**80M4**		68	497
	11	650	130.42	19400	2.3	-		**FF**	**77**	**EDRE**	**80M4**		79	498
	13	570	114.45	19600	2.6	-								
	13	540	108.46*	19600	2.8	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.75	**8.8**	810	162.31	10400	1.00	-								
	10	710	142.40	11200	1.15	-								
	12	600	120.79	11900	1.35	-								
	13	540	109.04	12200	1.50	-		**FA**	**67**	**EDRE**	**80M4**		42	494
	15	475	95.94	12500	1.70	-		**FAF**	**67**	**EDRE**	**80M4**		48	493
	16	450	90.59	12600	1.80	-		**F**	**67**	**EDRE**	**80M4**		45	492
	18	395	79.76	12800	2.0	-		**FF**	**67**	**EDRE**	**80M4**		51	493
	21	335	67.65	13000	2.2	-								
	24	300	61.07	13000	2.4	-								
	13	545	110.01	9580	1.10	-								
	15	465	93.47	10100	1.30	-								
	17	415	83.46	10500	1.45	-		**FA**	**57**	**EDRE**	**80M4**		38	489
	20	360	72.98	10800	1.65	-		**FAF**	**57**	**EDRE**	**80M4**		43	488
	21	340	68.22	10900	1.75	-		**F**	**57**	**EDRE**	**80M4**		38	487
	24	290	58.97	11200	2.0	-		**FF**	**57**	**EDRE**	**80M4**		44	488
	29	250	50.10	11400	2.3	-								
	32	220	44.73	11300	2.6	-								
	18	395	79.72	5950	1.00	-	X							
	21	335	68.09	6670	1.20	-	X							
	22	325	65.36	6810	1.25	-	X							
	25	280	56.49	7220	1.40	-	X	**FA**	**47**	**EDRE**	**80M4**		30	484
	30	235	48.00*	7530	1.65	-	X	**FAF**	**47**	**EDRE**	**80M4**		33	483
	33	210	42.86	7690	1.85	-	X	**F**	**47**	**EDRE**	**80M4**		31	482
	39	183	36.61	7860	2.2	-	X	**FF**	**47**	**EDRE**	**80M4**		34	483
	42	171	34.29	7780	2.3	-	X							
	50	144	28.88	7460	2.6	-	X							
	37	191	38.31	4420	1.05	-	X	**FA**	**37**	**EDRE**	**80M4**		25	479
	40	179	35.91	4570	1.10	-	X	**FAF**	**37**	**EDRE**	**80M4**		27	478
	45	158	31.69	4590	1.20	-	X	**F**	**37**	**EDRE**	**80M4**		26	477
	51	140	28.09	4510	1.30	-	X	**FF**	**37**	**EDRE**	**80M4**		28	478
	61	118	23.63	4370	1.70	-	X							
	70	103	20.57	4260	1.85	-	X	**FA**	**37**	**EDRE**	**80M4**		25	479
	74	96	19.27	4200	1.95	-	X	**FAF**	**37**	**EDRE**	**80M4**		27	478
	84	85	17.03	4090	2.1	-	X	**F**	**37**	**EDRE**	**80M4**		26	477
	100	72	14.33	3930	2.4	-	X	**FF**	**37**	**EDRE**	**80M4**		28	478
	112	64	12.87	3840	2.6	-	X							
	62	116	23.25	2910	1.10	-	X							
	71	101	20.15	2860	1.30	-	X							
	76	94	18.84	2840	1.40	-	X							
	88	81	16.28	2770	1.60	-	X							
	104	69	13.84	2700	1.85	-	X							
	116	62	12.35	2640	2.0	-	X							
	136	53	10.55	2560	2.3	-	X	**FA**	**27**	**EDRE**	**80M4**		19	475
	145	49	9.88	2520	2.5	-	X	**FAF**	**27**	**EDRE**	**80M4**		20	474
	153	47	9.40	2450	2.2	-	X	**F**	**27**	**EDRE**	**80M4**		20	473
	177	41	8.13	2370	2.4	-	X	**FF**	**27**	**EDRE**	**80M4**		20	474
	208	34	6.91	2290	2.7	-	X							
	233	31	6.17	2230	2.9	-	X							
	272	26	5.27	2140	3.3	-	X							
	291	25	4.93	2100	3.4	-	X							
	345	21	4.16	2010	3.8	-	X							
1.1	**0.51**	17900	2780	100500	1.00	-		**FA**	**157R97**	**EDRE**	**90M4**		780	527
								FAF	**157R97**	**EDRE**	**90M4**		830	527
								F	**157R97**	**EDRE**	**90M4**		800	527
								FF	**157R97**	**EDRE**	**90M4**		900	527

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
1.1	**0.58**	15800	2427	106100	1.15	-								
	0.65	14100	2185	110000	1.25	-								
	0.73	12500	1944	113100	1.45	-								
	0.85	11100	1674	115600	1.60	-		**FA**	**157R97**	**EDRE**	**90M4**		770	527
	1.1	8610	1308	119100	2.1	-		**FAF**	**157R97**	**EDRE**	**90M4**		830	527
	1.2	7630	1169	120000	2.4	-		**F**	**157R97**	**EDRE**	**90M4**		790	527
	1.5	6100	953	120000	3.0	-		**FF**	**157R97**	**EDRE**	**90M4**		900	527
	1.7	5330	845	120000	3.4	-								
	3.2	2810	446	120000	6.4	-								
	4.7	1900	302	120000	9.4	-								
	0.80	12000	1784	90000	1.00	-								
	0.88	10700	1606	90000	1.10	-		**FA**	**127R77**	**EDRE**	**90M4**		435	527
	1.0	9330	1390	90000	1.30	-		**FAF**	**127R77**	**EDRE**	**90M4**		475	527
	1.2	8150	1220	90000	1.45	-		**F**	**127R77**	**EDRE**	**90M4**		475	527
	1.3	7250	1077	90000	1.65	-		**FF**	**127R77**	**EDRE**	**90M4**		520	527
	1.3	7380	1087	50600	1.05	-								
	1.5	6380	950	53100	1.20	-	X	**FA**	**107R77**	**EDRE**	**90M4**		285	527
	1.7	5570	834	55000	1.40	-		**FAF**	**107R77**	**EDRE**	**90M4**		305	527
	1.9	4890	736	56500	1.55	-		**F**	**107R77**	**EDRE**	**90M4**		300	527
	2.2	4310	640	57800	1.80	-		**FF**	**107R77**	**EDRE**	**90M4**		330	527
	2.4	4110	605	30400	1.05	-								
	2.7	3580	529	31900	1.20	-		**FA**	**97R57**	**EDRE**	**90M4**		195	527
	3.0	3160	467	32900	1.35	-		**FAF**	**97R57**	**EDRE**	**90M4**		220	527
	3.5	2730	406	33900	1.55	-		**F**	**97R57**	**EDRE**	**90M4**		205	527
	3.9	2450	363	34500	1.75	-		**FF**	**97R57**	**EDRE**	**90M4**		235	527
	4.1	2320	345	25400	1.30	-		**FA**	**87R57**	**EDRE**	**90M4**		130	527
	4.7	2010	300	26400	1.50	-		**FAF**	**87R57**	**EDRE**	**90M4**		145	527
	5.7	1670	249	27400	1.80	-		**F**	**87R57**	**EDRE**	**90M4**		135	527
								FF	**87R57**	**EDRE**	**90M4**		150	527
	5.1	2040	276.77	35300	2.1	-								
	5.6	1870	253.41	35600	2.3	-		**FA**	**97**	**EDRE**	**90M4**		170	509
	6.3	1650	223.88	36000	2.6	-		**FAF**	**97**	**EDRE**	**90M4**		195	508
	7.5	1400	189.92	36400	3.1	-		**F**	**97**	**EDRE**	**90M4**		180	507
	8.1	1290	174.87	36600	3.3	-		**FF**	**97**	**EDRE**	**90M4**		210	508
	5.2	2000	270.68	26400	1.50	-								
	5.6	1880	255.37	26800	1.60	-								
	6.2	1690	228.93	27300	1.75	-		**FA**	**87**	**EDRE**	**90M4**		110	504
	7.2	1450	197.20	27900	2.1	-		**FAF**	**87**	**EDRE**	**90M4**		120	503
	7.9	1330	179.97	28200	2.2	-		**F**	**87**	**EDRE**	**90M4**		115	502
	8.9	1180	159.61	28600	2.5	-		**FF**	**87**	**EDRE**	**90M4**		130	503
	11	990	134.16	29000	3.0	-								
	12	910	123.29	29200	3.3	-								
	7.2	1460	198.31	15900	1.00	-								
	7.5	1390	188.40	16400	1.10	-								
	8.5	1230	166.47	17300	1.20	-								
	10.0	1050	142.27	18100	1.45	-		**FA**	**77**	**EDRE**	**90M4**		68	499
	11	960	130.42	18400	1.55	-		**FAF**	**77**	**EDRE**	**90M4**		75	498
	12	840	114.45	18800	1.75	-		**F**	**77**	**EDRE**	**90M4**		72	497
	13	800	108.46*	19000	1.85	-		**FF**	**77**	**EDRE**	**90M4**		83	498
	15	700	94.93	19300	2.1	-								
	17	630	85.52	19400	2.4	-								
	19	555	75.02	19600	2.7	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
1.1	**13**	800	109.04	10400	1.00	-							
	15	705	95.94	11200	1.15	-							
	16	670	90.59	11500	1.20	-							
	18	590	79.76	12000	1.35	-							
	21	500	67.65	12400	1.50	-		**FA**	**67**	**EDRE**	**90M4**	46	494
	23	450	61.07	12600	1.60	-		**FAF**	**67**	**EDRE**	**90M4**	52	493
	26	395	53.73	12800	1.75	-		**F**	**67**	**EDRE**	**90M4**	48	492
	28	375	50.74	12900	1.85	-		**FF**	**67**	**EDRE**	**90M4**	54	493
	33	315	43.20	13000	2.1	-							
	36	290	39.26	13000	2.2	-							
	42	250	34.01	13000	2.5	-							
	19	535	72.98	9640	1.10	-	X						
	21	500	68.22	9890	1.20	-	X						
	24	435	58.97	10300	1.40	-	X	**FA**	**57**	**EDRE**	**90M4**	42	489
	28	370	50.10	10700	1.60	-	X	**FAF**	**57**	**EDRE**	**90M4**	47	488
	32	330	44.73	10700	1.75	-	X	**F**	**57**	**EDRE**	**90M4**	42	487
	37	280	38.21	10300	2.00	-	X	**FF**	**57**	**EDRE**	**90M4**	48	488
	40	260	35.79	10200	2.1	-	X						
	47	220	30.15	9780	2.4	-	X						
	30	355	48.00*	6500	1.15	-	X						
	33	315	42.86	6900	1.25	-	X	**FA**	**47**	**EDRE**	**90M4**	34	484
	39	270	36.61	7300	1.50	-	X	**FAF**	**47**	**EDRE**	**90M4**	37	483
	41	250	34.29	7240	1.60	-	X	**F**	**47**	**EDRE**	**90M4**	35	482
	49	210	28.88	7020	1.80	-	X	**FF**	**47**	**EDRE**	**90M4**	38	483
	46	225	30.86	7110	1.75	-	X						
	48	215	29.32	7040	1.85	-	X	**FA**	**47**	**EDRE**	**90M4**	33	484
	55	190	25.72	6860	2.1	-	X	**FAF**	**47**	**EDRE**	**90M4**	36	483
	65	161	21.82	6620	2.5	-	X	**F**	**47**	**EDRE**	**90M4**	34	482
	72	146	19.70	6470	2.8	-	X	**FF**	**47**	**EDRE**	**90M4**	37	483
	59	177	23.88	3930	1.00	-	X	**FA**	**37**	**EDRE**	**90M4**	29	479
								FAF	**37**	**EDRE**	**90M4**	31	478
								F	**37**	**EDRE**	**90M4**	30	477
								FF	**37**	**EDRE**	**90M4**	31	478
	69	152	20.57	3870	1.25	-	X						
	74	143	19.27	3840	1.30	-	X						
	83	126	17.03	3770	1.45	-	X	**FA**	**37**	**EDRE**	**90M4**	29	479
	99	106	14.33	3670	1.65	-	X	**FAF**	**37**	**EDRE**	**90M4**	30	478
	110	95	12.87	3600	1.75	-	X	**F**	**37**	**EDRE**	**90M4**	29	477
	128	82	11.08	3490	2.0	-	X	**FF**	**37**	**EDRE**	**90M4**	31	478
	136	77	10.42	3450	2.1	-	X						
	158	66	8.97	3340	2.4	-	X						
	87	120	16.28	2440	1.10	-	X						
	103	102	13.84	2410	1.25	-	X						
	115	91	12.35	2390	1.40	-	X						
	135	78	10.55	2340	1.55	-	X						
	144	73	9.88	2320	1.65	-	X	**FA**	**27**	**EDRE**	**90M4**	23	475
	151	70	9.40	2240	1.50	-	X	**FAF**	**27**	**EDRE**	**90M4**	23	474
	175	60	8.13	2190	1.65	-	X	**F**	**27**	**EDRE**	**90M4**	23	473
	206	51	6.91	2130	1.80	-	X	**FF**	**27**	**EDRE**	**90M4**	24	474
	230	46	6.17	2090	1.95	-	X						
	270	39	5.27	2020	2.2	-	X						
	288	36	4.93	2000	2.3	-	X						
	342	31	4.16	1920	2.6	-	X						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
1.5	**0.74**	17300	1944	102100	1.05	-								
	0.85	15200	1674	107600	1.20	-								
	1.1	11800	1308	114400	1.50	-		**FA**	**157R97**	**EDRE**	**90L4**		780	527
	1.2	10500	1169	116500	1.70	-		**FAF**	**157R97**	**EDRE**	**90L4**		830	527
	1.5	8450	953	119300	2.1	-		**F**	**157R97**	**EDRE**	**90L4**		800	527
	1.7	7410	845	120000	2.4	-		**FF**	**157R97**	**EDRE**	**90L4**		900	527
	3.2	3910	446	120000	4.6	-								
	4.7	2650	302	120000	6.8	-								
	1.2	11100	1220	90000	1.05	-								
	1.3	9910	1077	90000	1.20	-		**FA**	**127R77**	**EDRE**	**90L4**		440	527
	1.5	8500	930	90000	1.40	-		**FAF**	**127R77**	**EDRE**	**90L4**		475	527
	1.7	7480	820	90000	1.60	-		**F**	**127R77**	**EDRE**	**90L4**		475	527
	2.0	6610	727	90000	1.80	-		**FF**	**127R77**	**EDRE**	**90L4**		520	527
	2.2	5960	648	90000	2.0	-								
	1.7	7630	834	49900	1.00	-								
	1.9	6710	736	52300	1.15	-								
	2.2	5890	640	54300	1.30	-	X	**FA**	**107R77**	**EDRE**	**90L4**		290	527
	2.6	5090	560	56100	1.50	-	X	**FAF**	**107R77**	**EDRE**	**90L4**		310	527
	2.9	4440	489	57500	1.75	-		**F**	**107R77**	**EDRE**	**90L4**		305	527
	3.3	4010	436	58400	1.90	-		**FF**	**107R77**	**EDRE**	**90L4**		335	527
	3.9	3400	370	59600	2.3	-								
	3.1	4320	467	29800	1.00	-		**FA**	**97R57**	**EDRE**	**90L4**		200	527
	3.5	3730	406	31500	1.15	-		**FAF**	**97R57**	**EDRE**	**90L4**		220	527
	3.9	3340	363	32500	1.30	-		**F**	**97R57**	**EDRE**	**90L4**		205	527
								FF	**97R57**	**EDRE**	**90L4**		240	527
	4.8	2760	300	23900	1.10	-		**FA**	**87R57**	**EDRE**	**90L4**		135	527
	5.7	2290	249	25500	1.30	-	X	**FAF**	**87R57**	**EDRE**	**90L4**		145	527
								F	**87R57**	**EDRE**	**90L4**		140	527
								FF	**87R57**	**EDRE**	**90L4**		155	527
	5.2	2770	276.77	33800	1.55	-								
	5.6	2530	253.41	34300	1.70	-		**FA**	**97**	**EDRE**	**90L4**		175	509
	6.4	2240	223.88	34900	1.90	-		**FAF**	**97**	**EDRE**	**90L4**		195	508
	7.5	1900	189.92	35600	2.3	-		**F**	**97**	**EDRE**	**90L4**		180	507
	8.2	1750	174.87	35800	2.4	-		**FF**	**97**	**EDRE**	**90L4**		215	508
	5.3	2710	270.68	24000	1.10	-								
	5.6	2550	255.37	24600	1.15	-	X							
	6.2	2290	228.93	25500	1.30	-	X							
	7.2	1970	197.20	26500	1.50	-		**FA**	**87**	**EDRE**	**90L4**		110	504
	8.0	1800	179.97	27000	1.65	-		**FAF**	**87**	**EDRE**	**90L4**		125	503
	9.0	1590	159.61	27600	1.90	-		**F**	**87**	**EDRE**	**90L4**		115	502
	11	1340	134.16	28200	2.2	-		**FF**	**87**	**EDRE**	**90L4**		130	503
	13	1090	109.49	28800	2.7	-								
	15	980	97.89	29000	2.9	-								
	10	1420	142.27	16200	1.05	-								
	11	1300	130.42	16900	1.15	-								
	12	1140	114.45	17700	1.30	-								
	13	1080	108.46*	18000	1.40	-								
	15	950	94.93	18500	1.60	-								
	17	850	85.52	18800	1.75	-		**FA**	**77**	**EDRE**	**90L4**		71	499
	19	750	75.02	19100	2.0	-		**FAF**	**77**	**EDRE**	**90L4**		78	498
	20	725	72.50	19200	2.1	-		**F**	**77**	**EDRE**	**90L4**		75	497
	22	665	66.46	19300	2.2	-		**FF**	**77**	**EDRE**	**90L4**		86	498
	25	580	58.32	19500	2.6	-								
	26	550	55.27	19600	2.7	-								
	30	480	48.37	19700	3.0	-								
	33	435	43.58	19800	3.3	-								
	37	380	38.23	19900	3.7	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
1.5	**39**	365	36.58	19900	3.0	-		**FA**	**77**	**EDRE**	**90L4**	70	499
	45	315	31.51	20000	4.4	-		**FAF**	**77**	**EDRE**	**90L4**	76	498
								F	**77**	**EDRE**	**90L4**	74	497
								FF	**77**	**EDRE**	**90L4**	84	498
	18	795	79.76	10500	1.00	-							
	21	675	67.65	11400	1.10	-							
	23	610	61.07	11800	1.20	-		**FA**	**67**	**EDRE**	**90L4**	48	494
	27	535	53.73	12200	1.30	-		**FAF**	**67**	**EDRE**	**90L4**	55	493
	28	505	50.74	12400	1.35	-		**F**	**67**	**EDRE**	**90L4**	51	492
	33	430	43.20	12700	1.55	-		**FF**	**67**	**EDRE**	**90L4**	57	493
	36	390	39.26	12800	1.65	-							
	39	360	36.30	12900	2.3	-		**FA**	**67**	**EDRE**	**90L4**	47	494
	45	320	32.08	13000	2.6	-		**FAF**	**67**	**EDRE**	**90L4**	53	493
	52	270	27.41	13000	3.0	-		**F**	**67**	**EDRE**	**90L4**	50	492
	57	250	25.13	13000	3.3	-		**FF**	**67**	**EDRE**	**90L4**	56	493
	24	590	58.97	9270	1.00	-	X						
	29	500	50.10	9910	1.15	-	X	**FA**	**57**	**EDRE**	**90L4**	44	489
	32	445	44.73	9970	1.30	-	X	**FAF**	**57**	**EDRE**	**90L4**	50	488
	37	380	38.21	9710	1.45	-	X	**F**	**57**	**EDRE**	**90L4**	45	487
	40	355	35.79	9600	1.55	-	X	**FF**	**57**	**EDRE**	**90L4**	51	488
	47	300	30.15	9280	1.75	-	X						
	39	365	36.61	6360	1.10	-	X	**FA**	**47**	**EDRE**	**90L4**	37	484
	42	340	34.29	6610	1.15	-	X	**FAF**	**47**	**EDRE**	**90L4**	39	483
	50	285	28.88	6480	1.30	-	X	**F**	**47**	**EDRE**	**90L4**	37	482
								FF	**47**	**EDRE**	**90L4**	41	483
	46	305	30.86	6540	1.30	-	X						
	49	290	29.32	6500	1.35	-	X						
	56	255	25.72	6380	1.55	-	X	**FA**	**47**	**EDRE**	**90L4**	36	484
	66	215	21.82	6210	1.85	-	X	**FAF**	**47**	**EDRE**	**90L4**	39	483
	73	197	19.70	6100	2.0	-	X	**F**	**47**	**EDRE**	**90L4**	37	482
	83	174	17.33	5950	2.3	-	X	**FF**	**47**	**EDRE**	**90L4**	40	483
	87	164	16.36	5880	2.4	-	X						
	103	140	13.93	5680	2.9	-	X						
	84	170	17.03	3390	1.05	-	X						
	100	144	14.33	3350	1.20	-	X						
	111	129	12.87	3310	1.30	-	X	**FA**	**37**	**EDRE**	**90L4**	32	479
	129	111	11.08	3240	1.50	-	X	**FAF**	**37**	**EDRE**	**90L4**	33	478
	137	104	10.42	3210	1.55	-	X	**F**	**37**	**EDRE**	**90L4**	32	477
	159	90	8.97	3130	1.75	-	X	**FF**	**37**	**EDRE**	**90L4**	34	478
	178	80	8.01	3070	1.95	-	X						
	116	124	12.35	2090	1.00	-	X						
	136	106	10.55	2090	1.15	-	X						
	145	99	9.88	2080	1.25	-	X						
	152	94	9.40	1990	1.10	-	X	**FA**	**27**	**EDRE**	**90L4**	25	475
	176	81	8.13	1970	1.20	-	X	**FAF**	**27**	**EDRE**	**90L4**	26	474
	207	69	6.91	1950	1.35	-	X	**F**	**27**	**EDRE**	**90L4**	26	473
	232	62	6.17	1920	1.45	-	X	**FF**	**27**	**EDRE**	**90L4**	27	474
	271	53	5.27	1880	1.65	-	X						
	290	49	4.93	1860	1.70	-	X						
	344	42	4.16	1810	1.90	-	X						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
2.2	**1.1**	17600	1308	101300	1.00	-								
	1.2	15700	1169	106400	1.15	-								
	1.5	12600	953	112900	1.40	-								
	1.7	11100	845	115500	1.60	-								
	1.9	10000	764	117200	1.80	-		**FA**	**157R97**	**EDRE**	**100M4**		780	527
	2.1	8930	680	118700	2.0	-		**FAF**	**157R97**	**EDRE**	**100M4**		840	527
	2.5	7490	576	120000	2.4	-		**F**	**157R97**	**EDRE**	**100M4**		800	527
	3.2	5900	446	120000	3.0	-		**FF**	**157R97**	**EDRE**	**100M4**		910	527
	4.7	3990	302	120000	4.5	-								
	5.2	3590	273	120000	5.0	-								
	6.2	3010	232	120000	6.0	-								
	7.3	2550	197	120000	7.0	-								
	1.7	11100	820	90000	1.10	-								
	2.0	9840	727	90000	1.20	-		**FA**	**127R77**	**EDRE**	**100M4**		445	527
	2.2	8840	648	90000	1.35	-		**FAF**	**127R77**	**EDRE**	**100M4**		480	527
	2.6	7490	549	90000	1.60	-		**F**	**127R77**	**EDRE**	**100M4**		480	527
	2.9	6740	495	90000	1.80	-		**FF**	**127R77**	**EDRE**	**100M4**		530	527
	3.3	5830	428	90000	2.1	-								
	2.5	7590	560	50000	1.00	-								
	2.9	6620	489	52500	1.15	-		**FA**	**107R77**	**EDRE**	**100M4**		295	527
	3.3	5950	436	54100	1.30	-	X	**FAF**	**107R77**	**EDRE**	**100M4**		315	527
	3.8	5040	370	56200	1.50	-	X	**F**	**107R77**	**EDRE**	**100M4**		310	527
	4.3	4540	333	57300	1.70	-		**FF**	**107R77**	**EDRE**	**100M4**		340	527
	5.0	3900	285	31000	1.10	-		**FA**	**97R57**	**EDRE**	**100M4**		205	527
	5.8	3350	245	32500	1.30	-	X	**FAF**	**97R57**	**EDRE**	**100M4**		225	527
								F	**97R57**	**EDRE**	**100M4**		210	527
								FF	**97R57**	**EDRE**	**100M4**		245	527
	5.6	3750	254.40*	58900	2.0	-		**FA**	**107**	**EDRE**	**100M4**		255	514
	6.6	3170	215.37	60100	2.4	-		**FAF**	**107**	**EDRE**	**100M4**		275	513
	7.2	2930	199.31	60500	2.6	-		**F**	**107**	**EDRE**	**100M4**		270	512
	8.0	2630	178.64	61100	2.9	-		**FF**	**107**	**EDRE**	**100M4**		300	513
	5.2	4080	276.77	30500	1.05	-								
	5.6	3730	253.41	31500	1.15	-								
	6.4	3300	223.88	32600	1.30	-		**FA**	**97**	**EDRE**	**100M4**		180	509
	7.5	2790	189.92	33800	1.55	-		**FAF**	**97**	**EDRE**	**100M4**		200	508
	8.2	2570	174.87	34200	1.65	-		**F**	**97**	**EDRE**	**100M4**		185	507
	9.1	2300	156.30	34800	1.85	-		**FF**	**97**	**EDRE**	**100M4**		220	508
	10	2070	140.71	35300	2.1	-								
	11	1870	127.42	35600	2.3	-								
	7.2	2900	197.20	23000	1.05	-								
	7.9	2650	179.97	24300	1.15	-								
	8.9	2350	159.61	25300	1.25	-	X							
	11	1970	134.16	26500	1.50	-	X							
	12	1810	123.29	27000	1.65	-								
	13	1610	109.49	27500	1.85	-		**FA**	**87**	**EDRE**	**100M4**		115	504
	15	1440	97.89	28000	1.95	-		**FAF**	**87**	**EDRE**	**100M4**		130	503
	16	1290	88.01	28300	2.1	-		**F**	**87**	**EDRE**	**100M4**		120	502
	19	1120	76.39	27800	2.3	-		**FF**	**87**	**EDRE**	**100M4**		135	503
	21	1000	68.40	27100	2.5	-								
	25	830	56.75	25900	2.9	-								
	28	740	50.36	25100	3.0	-								
	31	665	45.28	24400	3.2	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
2.2	**15**	1390	94.93	16400	1.05	-							
	17	1260	85.52	17100	1.20	-	X						
	19	1100	75.02	17900	1.35	-		**FA**	**77**	**EDRE**	**100M4**	76	499
	21	970	66.46	18400	1.55	-		**FAF**	**77**	**EDRE**	**100M4**	83	498
	24	850	58.32	18800	1.75	-		**F**	**77**	**EDRE**	**100M4**	80	497
	26	810	55.27	18900	1.85	-		**FF**	**77**	**EDRE**	**100M4**	90	498
	29	710	48.37	19200	2.0	-							
	33	640	43.58	19400	2.2	-							
	39	535	36.58	19600	2.1	-		**FA**	**77**	**EDRE**	**100M4**	75	499
	45	460	31.51	19800	3.0	-		**FAF**	**77**	**EDRE**	**100M4**	81	498
	50	420	28.75	19800	3.3	-		**F**	**77**	**EDRE**	**100M4**	78	497
	56	375	25.50*	19900	4.0	-		**FF**	**77**	**EDRE**	**100M4**	89	498
	33	635	43.20	11700	1.05	-		**FA**	**67**	**EDRE**	**100M4**	53	494
	36	575	39.26	12000	1.10	-		**FAF**	**67**	**EDRE**	**100M4**	59	493
	42	500	34.01	12400	1.25	-		**F**	**67**	**EDRE**	**100M4**	56	492
								FF	**67**	**EDRE**	**100M4**	62	493
	44	470	32.08	12500	1.75	-							
	52	400	27.41	12800	2.0	-		**FA**	**67**	**EDRE**	**100M4**	52	494
	57	370	25.13	12900	2.2	-		**FAF**	**67**	**EDRE**	**100M4**	58	493
	65	325	22.05	13000	2.5	-		**F**	**67**	**EDRE**	**100M4**	55	492
	68	305	20.90*	13000	2.7	-		**FF**	**67**	**EDRE**	**100M4**	61	493
	78	265	18.29	13000	3.0	-							
	40	525	35.79	8610	1.05	-	X	**FA**	**57**	**EDRE**	**100M4**	49	489
	47	440	30.15	8450	1.20	-	X	**FAF**	**57**	**EDRE**	**100M4**	55	488
								F	**57**	**EDRE**	**100M4**	49	487
								FF	**57**	**EDRE**	**100M4**	56	488
	57	365	24.96	8230	1.55	-	X						
	67	310	21.17	8000	1.90	-	X	**FA**	**57**	**EDRE**	**100M4**	49	489
	75	280	19.11	7850	2.1	-	X	**FAF**	**57**	**EDRE**	**100M4**	54	488
	85	245	16.81	7650	2.4	-	X	**F**	**57**	**EDRE**	**100M4**	49	487
	90	230	15.88	7560	2.5	-	X	**FF**	**57**	**EDRE**	**100M4**	55	488
	55	375	25.72	5560	1.05	-	X						
	65	320	21.82	5520	1.25	-	X						
	72	290	19.70	5470	1.40	-	X						
	82	255	17.33	5400	1.55	-	X	**FA**	**47**	**EDRE**	**100M4**	41	484
	87	240	16.36	5360	1.65	-	X	**FAF**	**47**	**EDRE**	**100M4**	44	483
	102	205	13.93	5240	1.95	-	X	**F**	**47**	**EDRE**	**100M4**	42	482
	113	187	12.66	5160	2.1	-	X	**FF**	**47**	**EDRE**	**100M4**	45	483
	130	162	10.97	5030	2.5	-	X						
	159	132	8.96	4730	2.5	-	X						
	129	163	11.08	2820	1.00	-	X						
	137	154	10.42	2810	1.05	-	X						
	159	132	8.97	2790	1.20	-	X						
	178	118	8.01	2760	1.35	-	X	**FA**	**37**	**EDRE**	**100M4**	37	479
	211	99	6.74	2620	1.15	-	X	**FAF**	**37**	**EDRE**	**100M4**	38	478
	236	89	6.05	2590	1.25	-	X	**F**	**37**	**EDRE**	**100M4**	37	477
	273	77	5.21	2540	1.40	-	X	**FF**	**37**	**EDRE**	**100M4**	39	478
	291	72	4.90	2510	1.45	-	X						
	338	62	4.22	2450	1.60	-	X						
	378	56	3.77	2400	1.70	-	X						
	271	78	5.27	1640	1.10	-	X	**FA**	**27**	**EDRE**	**100M4**	30	475
	289	73	4.93	1640	1.15	-	X	**FAF**	**27**	**EDRE**	**100M4**	31	474
	343	61	4.16	1620	1.30	-	X	**F**	**27**	**EDRE**	**100M4**	31	473
								FF	**27**	**EDRE**	**100M4**	32	474

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
3.0	**1.5**	17100	953	102800	1.05	-							
	1.7	15100	845	107900	1.20	-							
	1.9	13500	764	111100	1.30	-							
	2.1	12000	680	114000	1.50	-	**FA**	**157R97**	**EDRE**	**100LC4**		790	527
	2.5	10100	576	117000	1.75	-	**FAF**	**157R97**	**EDRE**	**100LC4**		840	527
	3.3	7980	446	119800	2.2	-	**F**	**157R97**	**EDRE**	**100LC4**		810	527
	4.8	5400	302	120000	3.3	-	**FF**	**157R97**	**EDRE**	**100LC4**		910	527
	5.3	4860	273	120000	3.7	-							
	6.3	4080	232	120000	4.4	-							
	7.4	3460	197	120000	5.2	-							
	2.2	11800	648	90000	1.00	-	**FA**	**127R77**	**EDRE**	**100LC4**		450	527
	2.6	10000	549	90000	1.20	-	**FAF**	**127R77**	**EDRE**	**100LC4**		485	527
	2.9	9040	495	90000	1.35	-	**F**	**127R77**	**EDRE**	**100LC4**		485	527
							FF	**127R77**	**EDRE**	**100LC4**		530	527
	3.9	6760	370	52200	1.15	-	**FA**	**107R77**	**EDRE**	**100LC4**		300	527
	4.4	6090	333	53800	1.25	-	**FAF**	**107R77**	**EDRE**	**100LC4**		320	527
	5.0	5320	291	55600	1.45	-	**F**	**107R77**	**EDRE**	**100LC4**		315	527
							FF	**107R77**	**EDRE**	**100LC4**		340	527
	5.7	5000	254.40*	56300	1.55	-							
	6.8	4240	215.37	57900	1.80	-	**FA**	**107**	**EDRE**	**100LC4**		260	514
	7.3	3920	199.31	58600	1.95	-	**FAF**	**107**	**EDRE**	**100LC4**		280	513
	8.1	3510	178.64	59400	2.2	-	**F**	**107**	**EDRE**	**100LC4**		275	512
	9.0	3170	161.28*	60100	2.4	-	**FF**	**107**	**EDRE**	**100LC4**		305	513
	7.7	3730	189.92	31500	1.15	-							
	8.3	3440	174.87	32200	1.25	-							
	9.3	3070	156.30	33100	1.40	-	**FA**	**97**	**EDRE**	**100LC4**		185	509
	10	2770	140.71	33800	1.55	-	**FAF**	**97**	**EDRE**	**100LC4**		205	508
	11	2500	127.42	34400	1.70	-	**F**	**97**	**EDRE**	**100LC4**		190	507
	13	2220	112.99	35000	1.95	-	**FF**	**97**	**EDRE**	**100LC4**		225	508
	14	2010	102.16	35400	2.1	-							
	16	1760	89.85	35800	2.4	-							
	11	2640	134.16	24300	1.15	-							
	12	2420	123.29	25100	1.25	-							
	13	2150	109.49	26000	1.35	-							
	15	1920	97.89	26700	1.50	-	**FA**	**87**	**EDRE**	**100LC4**		120	504
	17	1730	88.01	26700	1.60	-	**FAF**	**87**	**EDRE**	**100LC4**		135	503
	19	1500	76.39	26100	1.75	-	**F**	**87**	**EDRE**	**100LC4**		125	502
	21	1340	68.40	25500	1.90	-	**FF**	**87**	**EDRE**	**100LC4**		140	503
	26	1110	56.75	24600	2.2	-							
	29	990	50.36	23900	2.2	-							
	19	1470	75.02	15900	1.00	-							
	22	1300	66.46	16900	1.15	-							
	25	1140	58.32	17700	1.30	-	**FA**	**77**	**EDRE**	**100LC4**		81	499
	26	1080	55.27	18000	1.40	-	**FAF**	**77**	**EDRE**	**100LC4**		88	498
	30	950	48.37	18500	1.50	-	**F**	**77**	**EDRE**	**100LC4**		85	497
	33	850	43.58	18800	1.65	-	**FF**	**77**	**EDRE**	**100LC4**		95	498
	38	750	38.23	19100	1.85	-							
	40	720	36.58	19200	1.55	-							
	46	620	31.51	19500	2.2	-	**FA**	**77**	**EDRE**	**100LC4**		80	499
	51	565	28.75	19600	2.5	-	**FAF**	**77**	**EDRE**	**100LC4**		86	498
	57	500	25.50*	19700	3.0	-	**F**	**77**	**EDRE**	**100LC4**		83	497
	68	420	21.43	19800	3.6	-	**FF**	**77**	**EDRE**	**100LC4**		94	498

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
3.0	**45**	630	32.08	11700	1.30	-							
	53	535	27.41	12200	1.50	-							
	58	490	25.13	12400	1.65	-		**FA**	**67**	**EDRE**	**100LC4**	57	494
	66	430	22.05	12700	1.90	-		**FAF**	**67**	**EDRE**	**100LC4**	63	493
	70	410	20.90*	12800	2.00	-		**F**	**67**	**EDRE**	**100LC4**	60	492
	80	360	18.29	12900	2.3	-		**FF**	**67**	**EDRE**	**100LC4**	66	493
	88	320	16.48	13000	2.5	-							
	101	280	14.46	13000	2.8	-							
	58	490	24.96	7420	1.15	-	X						
	69	415	21.17	7310	1.45	-	X						
	76	375	19.11	7220	1.60	-	X	**FA**	**57**	**EDRE**	**100LC4**	54	489
	87	330	16.81	7100	1.80	-	X	**FAF**	**57**	**EDRE**	**100LC4**	59	488
	92	310	15.88	7040	1.85	-	X	**F**	**57**	**EDRE**	**100LC4**	54	487
	108	265	13.52	6850	2.1	-	X	**FF**	**57**	**EDRE**	**100LC4**	60	488
	118	240	12.29	6730	2.3	-	X						
	137	205	10.64	6540	2.6	-	X						
	74	385	19.70	4760	1.05	-	X						
	84	340	17.33	4760	1.15	-	X						
	89	320	16.36	4760	1.25	-	X	**FA**	**47**	**EDRE**	**100LC4**	46	484
	104	270	13.93	4720	1.45	-	X	**FAF**	**47**	**EDRE**	**100LC4**	49	483
	115	245	12.66	4690	1.60	-	X	**F**	**47**	**EDRE**	**100LC4**	47	482
	133	215	10.97	4620	1.85	-	X	**FF**	**47**	**EDRE**	**100LC4**	50	483
	162	176	8.96	4350	1.85	-	X						
	279	103	5.21	2280	1.05	-	X	**FA**	**37**	**EDRE**	**100LC4**	42	479
	297	96	4.90	2270	1.10	-	X	**FAF**	**37**	**EDRE**	**100LC4**	43	478
	345	83	4.22	2240	1.20	-	X	**F**	**37**	**EDRE**	**100LC4**	42	477
	386	74	3.77	2210	1.30	-	X	**FF**	**37**	**EDRE**	**100LC4**	44	478
4.0	**2.2**	16200	680	105100	1.10	-							
	2.5	13600	576	111000	1.30	-							
	3.3	10700	446	116200	1.70	-		**FA**	**157R97**	**EDRE**	**132S4**	800	527
	4.8	7240	302	120000	2.5	-		**FAF**	**157R97**	**EDRE**	**132S4**	860	527
	5.3	6520	273	120000	2.8	-		**F**	**157R97**	**EDRE**	**132S4**	820	527
	6.3	5500	232	120000	3.3	-		**FF**	**157R97**	**EDRE**	**132S4**	930	527
	7.4	4660	197	120000	3.9	-							
	3.4	10400	428	90000	1.15	-		**FA**	**127R77**	**EDRE**	**132S4**	465	527
	3.9	9140	376	90000	1.30	-		**FAF**	**127R77**	**EDRE**	**132S4**	500	527
								F	**127R77**	**EDRE**	**132S4**	500	527
								FF	**127R77**	**EDRE**	**132S4**	540	527
	5.0	7090	291	51300	1.10	-		**FA**	**107R77**	**EDRE**	**132S4**	310	527
	5.7	6210	255	53500	1.25	-		**FAF**	**107R77**	**EDRE**	**132S4**	335	527
								F	**107R77**	**EDRE**	**132S4**	330	527
								FF	**107R77**	**EDRE**	**132S4**	355	527
	5.7	6650	254.40*	52400	1.15	-							
	6.8	5630	215.37	54900	1.35	-							
	7.3	5210	199.31	55800	1.45	-							
	8.2	4670	178.64	57000	1.65	-		**FA**	**107**	**EDRE**	**132S4**	270	514
	9.0	4210	161.28*	58000	1.80	-		**FAF**	**107**	**EDRE**	**132S4**	295	513
	10.0	3830	146.49	58800	2.0	-		**F**	**107**	**EDRE**	**132S4**	290	512
	11	3400	129.97	59600	2.3	-		**FF**	**107**	**EDRE**	**132S4**	315	513
	12	3080	117.94	60200	2.5	-							
	14	2650	101.38*	61000	2.9	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
4.0	**9.3**	4080	156.30	30500	1.05	-								
	10	3680	140.71	31600	1.15	-								
	11	3330	127.42	32500	1.30	-								
	13	2950	112.99	33400	1.45	-		**FA**	**97**		**EDRE**	**132S4**	200	509
	14	2670	102.16	34000	1.60	-		**FAF**	**97**		**EDRE**	**132S4**	220	508
	15	2550	97.58	34300	1.70	-		**F**	**97**		**EDRE**	**132S4**	205	507
	16	2350	89.85	34700	1.85	-		**FF**	**97**		**EDRE**	**132S4**	240	508
	18	2100	80.31	35200	2.0	-								
	20	1890	72.29	35600	2.3	-								
	22	1710	65.47	35900	2.4	-								
	13	2860	109.49	23500	1.05	-								
	15	2560	97.89	24600	1.10	-								
	17	2300	88.01	24500	1.20	-		**FA**	**87**		**EDRE**	**132S4**	135	504
	19	1990	76.39	24100	1.30	-		**FAF**	**87**		**EDRE**	**132S4**	145	503
	21	1780	68.40	23800	1.45	-		**F**	**87**		**EDRE**	**132S4**	140	502
	26	1480	56.75	23100	1.65	-		**FF**	**87**		**EDRE**	**132S4**	155	503
	29	1310	50.36	22600	1.65	-								
	32	1180	45.28	22200	1.80	-								
	26	1440	55.27	16100	1.05	-								
	30	1260	48.37	17100	1.15	-								
	34	1140	43.58	17700	1.25	-		**FA**	**77**		**EDRE**	**132S4**	95	499
	38	1000	38.23	18300	1.40	-		**FAF**	**77**		**EDRE**	**132S4**	100	498
	43	880	33.74	18700	1.55	-		**F**	**77**		**EDRE**	**132S4**	98	497
	49	780	29.91	19000	1.75	-		**FF**	**77**		**EDRE**	**132S4**	110	498
	57	665	25.54	19300	2.00	-								
	46	820	31.51	18900	1.65	-								
	51	750	28.75	19100	1.85	-		**FA**	**77**		**EDRE**	**132S4**	93	499
	57	665	25.50*	19300	2.2	-		**FAF**	**77**		**EDRE**	**132S4**	100	498
	68	560	21.43	19600	2.7	-		**F**	**77**		**EDRE**	**132S4**	97	497
	74	515	19.70	19700	2.9	-		**FF**	**77**		**EDRE**	**132S4**	110	498
	53	715	27.41	11100	1.15	-	X							
	58	655	25.13	11600	1.25	-	X							
	66	575	22.05	12000	1.40	-	X							
	70	545	20.90*	12200	1.50	-	X							
	80	475	18.29	12500	1.70	-	X							
	89	430	16.48	12700	1.90	-	X							
	101	375	14.46	12900	2.1	-	X							
	114	330	12.76	13000	2.3	-	X	**FA**	**67**		**EDRE**	**132S4**	110	494
	129	295	11.31	13000	2.6	-	X	**FAF**	**67**		**EDRE**	**132S4**	115	493
	151	250	9.66	13000	2.9	-	X	**F**	**67**		**EDRE**	**132S4**	115	492
	161	235	9.08	12900	2.2	-	X	**FF**	**67**		**EDRE**	**132S4**	120	493
	170	225	8.60	12700	2.4	-	X							
	194	197	7.53	12300	2.7	-	X							
	215	178	6.78	12000	2.9	-	X							
	245	156	5.95	11700	3.2	-	X							
	278	137	5.25	11300	3.4	-	X							
	314	122	4.66	11000	3.7	-	X							
	367	104	3.97	10500	4.1	-	X							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
4.0	**69**	550	21.17	6490	1.10	-	X							
	76	500	19.11	6480	1.20	-	X							
	87	435	16.81	6440	1.35	-	X							
	92	415	15.88	6420	1.40	-	X							
	108	350	13.52	6320	1.60	-	X							
	119	320	12.29	6250	1.75	-	X	**FA**	**57**	**EDRE**	**132S4**	105	489	
	137	275	10.64	6120	1.95	-	X	**FAF**	**57**	**EDRE**	**132S4**	110	488	
	157	240	9.31	5820	1.45	-	X	**F**	**57**	**EDRE**	**132S4**	105	487	
	178	210	8.19	5710	1.95	-	X	**FF**	**57**	**EDRE**	**132S4**	115	488	
	189	200	7.73	5650	2.0	-	X							
	222	172	6.58	5480	2.4	-	X							
	244	157	5.98	5380	2.5	-	X							
	282	136	5.18	5220	2.7	-	X							
5.5	**2.9**	16500	503	104200	1.10	-								
	3.3	14800	446	108400	1.20	-								
	4.1	11600	353	114800	1.55	-		**FA**	**157R97**	**EDRE**	**132M4**	810	527	
	4.8	10000	302	117200	1.80	-		**FAF**	**157R97**	**EDRE**	**132M4**	870	527	
	5.3	9080	273	118500	2.00	-		**F**	**157R97**	**EDRE**	**132M4**	830	527	
	6.3	7660	232	120000	2.4	-		**FF**	**157R97**	**EDRE**	**132M4**	940	527	
	7.2	6660	202	120000	2.7	-								
	7.4	6500	197	120000	2.8	-								
	4.7	10400	312	90000	1.15	-		**FA**	**127R87**	**EDRE**	**132M4**	495	527	
	5.0	9770	293	90000	1.25	-		**FAF**	**127R87**	**EDRE**	**132M4**	530	527	
	5.6	8620	259	90000	1.40	-		**F**	**127R87**	**EDRE**	**132M4**	530	527	
	6.5	7450	223	90000	1.60	-		**FF**	**127R87**	**EDRE**	**132M4**	580	527	
	7.3	7190	199.31	51100	1.05	-								
	8.1	6440	178.64	53000	1.20	-								
	9.0	5820	161.28*	54400	1.30	-								
	9.9	5280	146.49	55700	1.45	-		**FA**	**107**	**EDRE**	**132M4**	285	514	
	11	4690	129.97	57000	1.65	-		**FAF**	**107**	**EDRE**	**132M4**	305	513	
	12	4250	117.94	57900	1.80	-		**F**	**107**	**EDRE**	**132M4**	300	512	
	14	3650	101.38*	59100	2.1	-		**FF**	**107**	**EDRE**	**132M4**	330	513	
	16	3330	92.47*	59700	2.3	-								
	16	3190	88.49	60000	2.4	-								
	17	3030	83.99	60300	2.5	-								
	13	4070	112.99	30500	1.05	-								
	14	3680	102.16	31600	1.15	-								
	15	3520	97.58	32000	1.20	-								
	16	3240	89.85	32700	1.35	-								
	17	3120	86.59	33000	1.40	-		**FA**	**97**	**EDRE**	**132M4**	210	509	
	18	2890	80.31	33500	1.50	-		**FAF**	**97**	**EDRE**	**132M4**	230	508	
	19	2730	75.63	33900	1.60	-		**F**	**97**	**EDRE**	**132M4**	215	507	
	20	2600	72.29	34200	1.65	-		**FF**	**97**	**EDRE**	**132M4**	250	508	
	22	2360	65.47	34700	1.80	-								
	25	2090	58.06	34400	1.95	-								
	28	1890	52.49	33800	2.1	-								
	21	2460	68.40	21200	1.05	-								
	26	2040	56.75	21000	1.20	-								
	29	1810	50.36	20700	1.20	-		**FA**	**87**	**EDRE**	**132M4**	145	504	
	32	1630	45.28	20500	1.30	-		**FAF**	**87**	**EDRE**	**132M4**	160	503	
	37	1410	39.30	20100	1.45	-		**F**	**87**	**EDRE**	**132M4**	150	502	
	41	1270	35.19	19700	1.55	-		**FF**	**87**	**EDRE**	**132M4**	165	503	
	50	1050	29.20	19100	1.75	-								
	43	1220	33.92	19600	2.1	-		**FA**	**87**	**EDRE**	**132M4**	145	504	
	51	1030	28.78	19000	2.4	-		**FAF**	**87**	**EDRE**	**132M4**	155	503	
	55	950	26.50	18700	2.8	-		**F**	**87**	**EDRE**	**132M4**	150	502	
	61	850	23.68	18300	3.1	-		**FF**	**87**	**EDRE**	**132M4**	165	503	

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
5.5	**38**	1380	38.23	16500	1.00	-		**FA**	**77**	**EDRE**	**132M4**		105	499
	43	1210	33.74	17400	1.15	-		**FAF**	**77**	**EDRE**	**132M4**		115	498
	49	1070	29.91	18000	1.25	-		**F**	**77**	**EDRE**	**132M4**		110	497
	57	920	25.54	18600	1.45	-		**FF**	**77**	**EDRE**	**132M4**		120	498
	57	920	25.50*	18600	1.65	-								
	68	770	21.43	19100	1.95	-								
	74	710	19.70	19200	2.1	-		**FA**	**77**	**EDRE**	**132M4**		105	499
	83	630	17.49	19400	2.4	-		**FAF**	**77**	**EDRE**	**132M4**		110	498
	93	560	15.64*	19600	2.6	-		**F**	**77**	**EDRE**	**132M4**		110	497
	103	505	14.06	19200	2.8	-		**FF**	**77**	**EDRE**	**132M4**		120	498
	119	440	12.20	18600	3.1	-								
	66	795	22.05	10500	1.05	-	X							
	70	750	20.90*	10900	1.10	-	X							
	80	660	18.29	11500	1.25	-	X							
	88	590	16.48	11900	1.40	-	X							
	101	520	14.46	12300	1.55	-	X							
	114	460	12.76	12600	1.70	-	X							
	129	405	11.31	12800	1.85	-	X	**FA**	**67**	**EDRE**	**132M4**		120	494
	151	345	9.66	12900	2.1	-	X	**FAF**	**67**	**EDRE**	**132M4**		130	493
	160	325	9.08	12400	1.60	-	X	**F**	**67**	**EDRE**	**132M4**		125	492
	169	310	8.60	12200	1.75	-	X	**FF**	**67**	**EDRE**	**132M4**		130	493
	193	270	7.53	11900	2.00	-	X							
	214	240	6.78	11700	2.1	-	X							
	245	210	5.95	11300	2.3	-	X							
	277	190	5.25	11000	2.5	-	X							
	313	168	4.66	10700	2.7	-	X							
	366	144	3.97	10300	3.0	-	X							
	92	570	15.88	5490	1.00	-	X							
	108	485	13.52	5530	1.15	-	X							
	118	440	12.29	5530	1.25	-	X							
	137	380	10.64	5500	1.40	-	X	**FA**	**57**	**EDRE**	**132M4**		120	489
	178	295	8.19	5180	1.40	-	X	**FAF**	**57**	**EDRE**	**132M4**		125	488
	188	275	7.73	5150	1.50	-	X	**F**	**57**	**EDRE**	**132M4**		120	487
	221	235	6.58	5060	1.70	-	X	**FF**	**57**	**EDRE**	**132M4**		125	488
	243	215	5.98	5000	1.80	-	X							
	281	187	5.18	4890	1.95	-	X							
7.5	**5.6**	11700	259	90000	1.00	-		**FA**	**127R87**	**EDRE**	**160S4**		510	527
	6.5	10100	223	90000	1.20	-		**FAF**	**127R87**	**EDRE**	**160S4**		550	527
	7.4	9000	198	90000	1.35	-		**F**	**127R87**	**EDRE**	**160S4**		550	527
								FF	**127R87**	**EDRE**	**160S4**		590	527
	8.6	8370	170.83	90000	1.45	-		**FA**	**127**	**EDRE**	**160S4**		445	519
	9.5	7530	153.67*	90000	1.60	-		**FAF**	**127**	**EDRE**	**160S4**		485	518
	12	6150	125.37	90000	1.95	-		**F**	**127**	**EDRE**	**160S4**		480	517
	13	5600	114.34	90000	2.1	-		**FF**	**127**	**EDRE**	**160S4**		530	518
	10.0	7180	146.49	51100	1.05	-								
	11	6370	129.97	53100	1.20	-								
	12	5780	117.94	54500	1.35	-								
	14	4970	101.38*	56400	1.55	-		**FA**	**107**	**EDRE**	**160S4**		300	514
	16	4530	92.47*	57300	1.70	-		**FAF**	**107**	**EDRE**	**160S4**		320	513
	16	4340	88.49	57700	1.75	-		**F**	**107**	**EDRE**	**160S4**		315	512
	17	4110	83.99	58200	1.85	-		**FF**	**107**	**EDRE**	**160S4**		345	513
	20	3650	74.52	59100	2.1	-								
	22	3310	67.62	59800	2.3	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
7.5	**17**	4240	86.59	30100	1.00	-								
	18	3930	80.31	30900	1.10	-								
	19	3710	75.63	31600	1.15	-								
	20	3540	72.29	32000	1.20	-		**FA**	**97**	**EDRE**	**160S4**		225	509
	22	3210	65.47	32200	1.30	-		**FAF**	**97**	**EDRE**	**160S4**		245	508
	25	2840	58.06	31700	1.40	-		**F**	**97**	**EDRE**	**160S4**		235	507
	28	2570	52.49	31300	1.55	-		**FF**	**97**	**EDRE**	**160S4**		265	508
	33	2180	44.49	30500	1.70	-								
	38	1900	38.86	29800	1.90	-								
	45	1590	32.50	28800	2.1	-								
	34	2120	43.28	30400	1.45	-		**FA**	**97**	**EDRE**	**160S4**		220	509
	40	1790	36.64	29500	1.70	-		**FAF**	**97**	**EDRE**	**160S4**		240	508
	43	1660	33.91	29000	2.6	-		**F**	**97**	**EDRE**	**160S4**		225	507
	48	1490	30.39	28400	2.9	-		**FF**	**97**	**EDRE**	**160S4**		260	508
	37	1920	39.30	18100	1.05	-		**FA**	**87**	**EDRE**	**160S4**		160	504
	41	1720	35.19	17900	1.15	-		**FAF**	**87**	**EDRE**	**160S4**		175	503
	50	1430	29.20	17600	1.30	-		**F**	**87**	**EDRE**	**160S4**		165	502
								FF	**87**	**EDRE**	**160S4**		185	503
	51	1410	28.78	17600	1.75	-								
	55	1290	26.50	17400	2.1	-								
	62	1160	23.68	17100	2.3	-		**FA**	**87**	**EDRE**	**160S4**		160	504
	68	1040	21.32*	16800	2.4	-		**FAF**	**87**	**EDRE**	**160S4**		170	503
	76	940	19.31	16500	2.6	-		**F**	**87**	**EDRE**	**160S4**		165	502
	85	830	17.12	16100	2.9	-		**FF**	**87**	**EDRE**	**160S4**		180	503
	94	755	15.48	15800	3.2	-								
	57	1250	25.54	17200	1.05	-	X	**FA**	**77**	**EDRE**	**160S4**		120	499
								FAF	**77**	**EDRE**	**160S4**		130	498
								F	**77**	**EDRE**	**160S4**		125	497
								FF	**77**	**EDRE**	**160S4**		135	498
	57	1250	25.50*	17200	1.20	-	X							
	68	1050	21.43	18100	1.45	-	X							
	74	960	19.70	18400	1.55	-	X							
	83	850	17.49	18800	1.75	-	X							
	93	765	15.64*	18900	1.95	-	X							
	104	685	14.06	18500	2.1	-	X							
	120	595	12.20	18000	2.3	-	X	**FA**	**77**	**EDRE**	**160S4**		120	499
	134	535	10.93	17500	2.5	-	X	**FAF**	**77**	**EDRE**	**160S4**		130	498
	157	455	9.30	16400	2.3	-	X	**F**	**77**	**EDRE**	**160S4**		125	497
	177	405	8.26	16000	2.5	-	X	**FF**	**77**	**EDRE**	**160S4**		135	498
	198	360	7.39	15600	2.7	-	X							
	220	325	6.64	15300	2.9	-	X							
	253	280	5.76	14800	3.1	-	X							
	283	250	5.16	14400	3.3	-	X							
	341	210	4.28	13700	3.7	-	X							
9.2	**4.9**	16800	302	103600	1.05	-		**FA**	**157R97**	**EDRE**	**160M4**		840	527
	5.4	15100	273	107700	1.20	-		**FAF**	**157R97**	**EDRE**	**160M4**		890	527
	6.4	12800	232	112600	1.40	-		**F**	**157R97**	**EDRE**	**160M4**		860	527
	7.3	11100	202	115500	1.60	-		**FF**	**157R97**	**EDRE**	**160M4**		960	527
	7.5	10800	197	116000	1.65	-								
	7.4	10900	198	90000	1.10	-		**FA**	**127R87**	**EDRE**	**160M4**		520	527
								FAF	**127R87**	**EDRE**	**160M4**		560	527
								F	**127R87**	**EDRE**	**160M4**		560	527
								FF	**127R87**	**EDRE**	**160M4**		600	527
	8.6	10200	170.83	90000	1.20	-		**FA**	**127**	**EDRE**	**160M4**		455	519
	9.6	9180	153.67*	90000	1.30	-		**FAF**	**127**	**EDRE**	**160M4**		490	518
	12	7490	125.37	90000	1.60	-		**F**	**127**	**EDRE**	**160M4**		490	517
	13	6830	114.34	90000	1.75	-		**FF**	**127**	**EDRE**	**160M4**		540	518
	15	5910	98.95	90000	2.0	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
9.2	**12**	7040	117.94	51500	1.10	-							
	14	6050	101.38*	53900	1.25	-							
	16	5520	92.47*	55100	1.40	-		**FA**	**107**	**EDRE**	**160M4**	310	514
	18	5010	83.99	56300	1.55	-		**FAF**	**107**	**EDRE**	**160M4**	330	513
	20	4450	74.52	57500	1.70	-		**F**	**107**	**EDRE**	**160M4**	325	512
	22	4040	67.62	58300	1.90	-		**FF**	**107**	**EDRE**	**160M4**	355	513
	25	3470	58.12*	58000	2.2	-							
	29	3030	50.73	56500	2.5	-							
	20	4320	72.29	29600	1.00	-							
	22	3910	65.47	29600	1.05	-							
	25	3460	58.06	29500	1.15	-		**FA**	**97**	**EDRE**	**160M4**	235	509
	28	3130	52.49	29300	1.25	-		**FAF**	**97**	**EDRE**	**160M4**	255	508
	33	2650	44.49	28800	1.40	-		**F**	**97**	**EDRE**	**160M4**	240	507
	38	2320	38.86	28300	1.55	-		**FF**	**97**	**EDRE**	**160M4**	275	508
	45	1940	32.50	27500	1.75	-							
	43	2020	33.91	27700	2.1	-		**FA**	**97**	**EDRE**	**160M4**	230	509
	48	1810	30.39	27200	2.4	-		**FAF**	**97**	**EDRE**	**160M4**	250	508
	54	1630	27.44*	26700	2.6	-		**F**	**97**	**EDRE**	**160M4**	235	507
	59	1480	24.92	26200	2.9	-		**FF**	**97**	**EDRE**	**160M4**	270	508
	50	1740	29.20	16300	1.05	-		**FA**	**87**	**EDRE**	**160M4**	170	504
								FAF	**87**	**EDRE**	**160M4**	185	503
								F	**87**	**EDRE**	**160M4**	175	502
								FF	**87**	**EDRE**	**160M4**	190	503
	55	1580	26.50	16200	1.70	-							
	62	1410	23.68	16000	1.85	-							
	69	1270	21.32*	15900	2.0	-		**FA**	**87**	**EDRE**	**160M4**	170	504
	76	1150	19.31	15600	2.2	-		**FAF**	**87**	**EDRE**	**160M4**	180	503
	86	1020	17.12	15400	2.4	-		**F**	**87**	**EDRE**	**160M4**	175	502
	95	920	15.48	15100	2.6	-		**FF**	**87**	**EDRE**	**160M4**	190	503
	112	780	13.12*	14600	3.1	-							
	75	1170	19.70	17600	1.25	-	X						
	84	1040	17.49	18100	1.45	-	X						
	94	930	15.64*	18200	1.60	-	X						
	105	840	14.06	17900	1.70	-	X						
	120	725	12.20	17400	1.85	-	X						
	135	650	10.93	17100	2.0	-	X	**FA**	**77**	**EDRE**	**160M4**	130	499
	158	555	9.30	15900	1.90	-	X	**FAF**	**77**	**EDRE**	**160M4**	135	498
	178	490	8.26	15600	2.1	-	X	**F**	**77**	**EDRE**	**160M4**	135	497
	199	440	7.39	15200	2.2	-	X	**FF**	**77**	**EDRE**	**160M4**	145	498
	221	395	6.64	14900	2.3	-	X						
	255	340	5.76	14500	2.6	-	X						
	285	305	5.16	14100	2.7	-	X						
	343	255	4.28	13500	3.0	-	X						
11.0	**6.4**	15300	232	107200	1.15	-		**FA**	**157R97**	**EDRE**	**180S4**	870	527
	7.3	13300	202	111500	1.35	-		**FAF**	**157R97**	**EDRE**	**180S4**	930	527
	7.5	13000	197	112200	1.40	-		**F**	**157R97**	**EDRE**	**180S4**	890	527
								FF	**157R97**	**EDRE**	**180S4**	1000	527
	8.8	11000	166	90000	1.10	-		**FA**	**127R87**	**EDRE**	**180S4**	550	527
								FAF	**127R87**	**EDRE**	**180S4**	590	527
								F	**127R87**	**EDRE**	**180S4**	590	527
								FF	**127R87**	**EDRE**	**180S4**	630	527

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
11.0	**6.8**	15500	217.62*	106800	1.15	-								
	8.2	12700	178.20*	112800	1.40	-								
	9.0	11600	162.96	114700	1.55	-								
	10	10100	141.80*	117100	1.80	-	**FA**	**157**	**EDRE**	**180S4**	740	524
	12	8940	125.14	118700	2.0	-	**FAF**	**157**	**EDRE**	**180S4**	800	523
	14	7750	108.49	120000	2.3	-	**F**	**157**	**EDRE**	**180S4**	760	522
	15	6890	96.53*	120000	2.6	-	**FF**	**157**	**EDRE**	**180S4**	870	523
	17	6130	85.80*	117500	2.9	-						
	19	5600	78.46	115100	3.2	-						
	22	4870	68.28*	111400	3.7	-						
	9.6	10900	153.67*	90000	1.10	-						
	12	8950	125.37	90000	1.35	-	**FA**	**127**	**EDRE**	**180S4**	485	519
	13	8170	114.34	90000	1.45	-	**FAF**	**127**	**EDRE**	**180S4**	520	518
	15	7070	98.95	90000	1.70	-	**F**	**127**	**EDRE**	**180S4**	520	517
	17	6230	87.31*	90000	1.90	-	**FF**	**127**	**EDRE**	**180S4**	570	518
	19	5380	75.41*	88300	2.2	-						
	14	7240	101.38*	51000	1.05	-						
	16	6600	92.47*	52600	1.15	-						
	18	6000	83.99	54000	1.30	-	**FA**	**107**	**EDRE**	**180S4**	345	514
	20	5320	74.52	55600	1.45	-	**FAF**	**107**	**EDRE**	**180S4**	365	513
	22	4830	67.62	56700	1.60	-	**F**	**107**	**EDRE**	**180S4**	360	512
	25	4150	58.12*	56200	1.85	-	**FF**	**107**	**EDRE**	**180S4**	385	513
	29	3620	50.73	54900	2.1	-						
	34	3070	43.03	53300	2.5	-						
	44	2410	33.79*	50800	3.0	-	**FA**	**107**	**EDRE**	**180S4**	335	514
	53	1970	27.57	48500	3.5	-	**FAF**	**107**	**EDRE**	**180S4**	355	513
	58	1790	25.14	47500	3.8	-	**F**	**107**	**EDRE**	**180S4**	350	512
							FF	**107**	**EDRE**	**180S4**	375	513
	28	3750	52.49	27100	1.05	-	**FA**	**97**	**EDRE**	**180S4**	270	509
	33	3170	44.49	27000	1.20	-	**FAF**	**97**	**EDRE**	**180S4**	290	508
	38	2770	38.86	26700	1.30	-	**F**	**97**	**EDRE**	**180S4**	275	507
	45	2320	32.50	26200	1.45	-	**FF**	**97**	**EDRE**	**180S4**	310	508
	43	2420	33.91	26300	1.75	-						
	48	2170	30.39	25900	2.00	-	**FA**	**97**	**EDRE**	**180S4**	260	509
	54	1960	27.44*	25600	2.2	-	**FAF**	**97**	**EDRE**	**180S4**	285	508
	59	1780	24.92	25200	2.4	-	**F**	**97**	**EDRE**	**180S4**	270	507
	66	1580	22.11	24600	2.6	-	**FF**	**97**	**EDRE**	**180S4**	300	508
	55	1890	26.50	15000	1.40	-						
	62	1690	23.68	15000	1.55	-						
	69	1520	21.32*	14900	1.65	-	**FA**	**87**	**EDRE**	**180S4**	200	504
	76	1370	19.31	14800	1.80	-	**FAF**	**87**	**EDRE**	**180S4**	215	503
	86	1220	17.12	14600	2.00	-	**F**	**87**	**EDRE**	**180S4**	205	502
	95	1100	15.48	14400	2.2	-	**FF**	**87**	**EDRE**	**180S4**	220	503
	112	930	13.12*	14000	2.6	-						
15.0	**7.5**	17800	197	100700	1.00	-	**FA**	**157R97**	**EDRE**	**180M4**	890	527
							FAF	**157R97**	**EDRE**	**180M4**	940	527
							F	**157R97**	**EDRE**	**180M4**	910	527
							FF	**157R97**	**EDRE**	**180M4**	1010	527
	8.2	17300	178.20*	102100	1.05	-						
	9.0	15800	162.96	106000	1.15	-						
	10	13800	141.80*	110700	1.30	-						
	12	12100	125.14	113800	1.50	-	**FA**	**157**	**EDRE**	**180M4**	760	524
	14	10500	108.49	116400	1.70	-	**FAF**	**157**	**EDRE**	**180M4**	820	523
	15	9400	96.53*	115700	1.90	-	**F**	**157**	**EDRE**	**180M4**	780	522
	17	8360	85.80*	113100	2.2	-	**FF**	**157**	**EDRE**	**180M4**	880	523
	19	7640	78.46	111100	2.4	-						
	22	6650	68.28*	107900	2.7	-						
	24	5870	60.25	105000	3.1	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
15.0	**13**	11100	114.34	88300	1.10	-							
	15	9640	98.95	86900	1.25	-	**FA**	**127**	**EDRE**	**180M4**	500	519
	17	8500	87.31*	85500	1.40	-	**FAF**	**127**	**EDRE**	**180M4**	540	518
	19	7340	75.41*	83700	1.65	-	**F**	**127**	**EDRE**	**180M4**	540	517
	21	6820	70.07	82700	1.75	-	**FF**	**127**	**EDRE**	**180M4**	580	518
	20	7260	74.52	50900	1.05	-						
	22	6580	67.62	52600	1.15	-						
	25	5660	58.12*	52200	1.35	-	**FA**	**107**	**EDRE**	**180M4**	360	514
	29	4940	50.73	51400	1.55	-	**FAF**	**107**	**EDRE**	**180M4**	380	513
	34	4190	43.03	50300	1.85	-	**F**	**107**	**EDRE**	**180M4**	375	512
	39	3660	37.61	49300	2.1	-	**FF**	**107**	**EDRE**	**180M4**	405	513
	46	3090	31.80	47900	2.3	-						
	44	3290	33.79*	48400	2.2	-	**FA**	**107**	**EDRE**	**180M4**	350	514
	53	2680	27.57	46600	2.6	-	**FAF**	**107**	**EDRE**	**180M4**	370	513
	58	2450	25.14	45800	2.8	-	**F**	**107**	**EDRE**	**180M4**	365	512
	68	2120	21.76*	44500	3.2	-	**FF**	**107**	**EDRE**	**180M4**	395	513
	45	3160	32.50	23200	1.05	-	**FA**	**97**	**EDRE**	**180M4**	285	509
							FAF	**97**	**EDRE**	**180M4**	305	508
							F	**97**	**EDRE**	**180M4**	290	507
							FF	**97**	**EDRE**	**180M4**	325	508
	43	3300	33.91	23200	1.30	-						
	48	2960	30.39	23200	1.45	-						
	54	2670	27.44*	23100	1.60	-						
	59	2420	24.92	22900	1.75	-	**FA**	**97**	**EDRE**	**180M4**	280	509
	66	2150	22.11	22600	1.95	-	**FAF**	**97**	**EDRE**	**180M4**	300	508
	73	1950	20.07	22400	2.1	-	**F**	**97**	**EDRE**	**180M4**	285	507
	85	1680	17.25*	21900	2.4	-	**FF**	**97**	**EDRE**	**180M4**	320	508
	98	1460	15.06	21400	2.7	-						
	115	1240	12.77	20800	3.0	-						
	132	1080	11.16	20200	3.3	-						
	55	2580	26.50	12400	1.05	-						
	62	2300	23.68	12600	1.15	-						
	69	2070	21.32*	12700	1.25	-						
	76	1880	19.31	12800	1.30	-						
	86	1660	17.12	12900	1.45	-						
	95	1500	15.48	12800	1.60	-						
	112	1270	13.12*	12700	1.90	-	**FA**	**87**	**EDRE**	**180M4**	215	504
	128	1110	11.46	12600	2.2	-	**FAF**	**87**	**EDRE**	**180M4**	230	503
	153	930	9.58	12300	2.6	-	**F**	**87**	**EDRE**	**180M4**	225	502
	177	800	8.29	11700	1.85	-	**FF**	**87**	**EDRE**	**180M4**	240	503
	200	715	7.35	11500	2.1	-						
	221	645	6.65	11300	2.2	-						
	261	545	5.63	11000	2.5	-						
	299	475	4.92	10700	2.8	-						
	357	400	4.12	10300	3.0	-						
18.5	**10**	16900	141.80*	103100	1.05	-						
	12	14900	125.14	108100	1.20	-						
	14	12900	108.49	112300	1.40	-						
	15	11500	96.53*	111200	1.55	-	**FA**	**157**	**EDRE**	**180L4**	770	524
	17	10200	85.80*	109100	1.75	-	**FAF**	**157**	**EDRE**	**180L4**	830	523
	19	9390	78.46	107400	1.90	-	**F**	**157**	**EDRE**	**180L4**	790	522
	22	8170	68.28*	104700	2.2	-	**FF**	**157**	**EDRE**	**180L4**	900	523
	24	7210	60.25	102200	2.5	-						
	28	6250	52.24	99200	2.9	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
18.5	**15**	11800	98.95	81600	1.00	-							
	17	10400	87.31*	80900	1.15	-							
	20	9030	75.41*	79700	1.35	-	**FA**	**127**	**EDRE**	**180L4**	510	519
	21	8390	70.07	79000	1.45	-	**FAF**	**127**	**EDRE**	**180L4**	550	518
	23	7650	63.91	78000	1.55	-	**F**	**127**	**EDRE**	**180L4**	550	517
	27	6620	55.31	76400	1.75	-	**FF**	**127**	**EDRE**	**180L4**	600	518
	30	5840	48.80	74800	1.90	-						
	25	6960	58.12*	48700	1.10	-						
	29	6070	50.73	48400	1.25	-	**FA**	**107**	**EDRE**	**180L4**	370	514
	34	5150	43.03	47700	1.50	-	**FAF**	**107**	**EDRE**	**180L4**	390	513
	39	4500	37.61	47000	1.70	-	**F**	**107**	**EDRE**	**180L4**	385	512
	46	3800	31.80	46000	1.90	-	**FF**	**107**	**EDRE**	**180L4**	415	513
	44	4040	33.79*	46400	1.80	-	**FA**	**107**	**EDRE**	**180L4**	360	514
	54	3300	27.57	45000	2.1	-	**FAF**	**107**	**EDRE**	**180L4**	380	513
	59	3010	25.14	44300	2.2	-	**F**	**107**	**EDRE**	**180L4**	375	512
	68	2600	21.76*	43100	2.6	-	**FF**	**107**	**EDRE**	**180L4**	405	513
	54	3280	27.44*	20900	1.30	-						
	59	2980	24.92	20900	1.45	-						
	67	2640	22.11	20900	1.55	-	**FA**	**97**	**EDRE**	**180L4**	290	509
	74	2400	20.07	20800	1.70	-	**FAF**	**97**	**EDRE**	**180L4**	310	508
	86	2060	17.25*	20500	1.95	-	**F**	**97**	**EDRE**	**180L4**	295	507
	98	1800	15.06	20200	2.2	-	**FF**	**97**	**EDRE**	**180L4**	330	508
	116	1520	12.77	19700	2.5	-						
	132	1330	11.16	19300	2.7	-						
	69	2550	21.32*	10900	1.00	-						
	76	2310	19.31	11100	1.10	-						
	86	2050	17.12	11400	1.20	-						
	95	1850	15.48	11500	1.30	-						
	112	1570	13.12*	11600	1.55	-						
	129	1370	11.46	11600	1.75	-	**FA**	**87**	**EDRE**	**180L4**	230	504
	154	1140	9.58	11500	2.1	-	**FAF**	**87**	**EDRE**	**180L4**	240	503
	178	990	8.29	10900	1.50	-	**F**	**87**	**EDRE**	**180L4**	235	502
	201	880	7.35	10800	1.70	-	**FF**	**87**	**EDRE**	**180L4**	250	503
	222	795	6.65	10700	1.85	-						
	262	670	5.63	10400	2.0	-						
	300	585	4.92	10200	2.2	-						
	358	490	4.12	9890	2.5	-						
22	**12**	17700	125.14	101000	1.00	-						
	14	15400	108.49	107200	1.15	-						
	15	13700	96.53*	106800	1.30	-						
	17	12100	85.80*	105200	1.50	-						
	19	11100	78.46	103800	1.60	-	**FA**	**157**	**EDRE**	**200L4**	870	524
	22	9690	68.28*	101600	1.85	-	**FAF**	**157**	**EDRE**	**200L4**	930	523
	25	8550	60.25	99400	2.1	-	**F**	**157**	**EDRE**	**200L4**	890	522
	28	7410	52.24	96800	2.4	-	**FF**	**157**	**EDRE**	**200L4**	1000	523
	32	6590	46.48*	94600	2.7	-						
	37	5680	40.06	91700	3.2	-						
	45	4620	32.55	87600	3.7	-						
	20	10700	75.41*	75700	1.10	-						
	21	9940	70.07	75300	1.20	-	**FA**	**127**	**EDRE**	**200L4**	620	519
	23	9070	63.91	74600	1.30	-	**FAF**	**127**	**EDRE**	**200L4**	660	518
	27	7850	55.31	73400	1.50	-	**F**	**127**	**EDRE**	**200L4**	650	517
	30	6920	48.80	72200	1.60	-	**FF**	**127**	**EDRE**	**200L4**	700	518
	35	5980	42.15	70600	1.80	-						
	29	7200	50.73	45300	1.05	-	**FA**	**107**	**EDRE**	**200L4**	475	514
	34	6100	43.03	45100	1.25	-	**FAF**	**107**	**EDRE**	**200L4**	495	513
	39	5330	37.61	44700	1.40	-	**F**	**107**	**EDRE**	**200L4**	490	512
	47	4510	31.80	44000	1.60	-	**FF**	**107**	**EDRE**	**200L4**	520	513

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
22	**44**	4790	33.79*	44300	1.50	-								
	54	3910	27.57	43300	1.75	-		**FA**	**107**	**EDRE**	**200L4**	465	514
	59	3560	25.14	42700	1.90	-		**FAF**	**107**	**EDRE**	**200L4**	485	513
	68	3080	21.76*	41800	2.2	-		**F**	**107**	**EDRE**	**200L4**	480	512
	77	2720	19.20*	40900	2.5	-		**FF**	**107**	**EDRE**	**200L4**	510	513
	54	3890	27.44*	18700	1.10	-	X						
	59	3530	24.92	18900	1.20	-	X						
	67	3130	22.11	19100	1.30	-	X	**FA**	**97**	**EDRE**	**200L4**	395	509
	74	2840	20.07	19200	1.45	-	X	**FAF**	**97**	**EDRE**	**200L4**	415	508
	86	2440	17.25*	19100	1.65	-	X	**F**	**97**	**EDRE**	**200L4**	400	507
	98	2130	15.06	19000	1.85	-	X	**FF**	**97**	**EDRE**	**200L4**	435	508
	116	1810	12.77	18700	2.1	-	X						
	133	1580	11.16	18400	2.3	-	X						
30	**17**	16600	85.80*	96400	1.10	-							
	19	15100	78.46	95800	1.20	-							
	22	13200	68.28*	94500	1.35	-		**FA**	**157**	**EDRE**	**225S4**	910	524
	25	11600	60.25	93200	1.55	-		**FAF**	**157**	**EDRE**	**225S4**	970	523
	28	10100	52.24	91400	1.80	-		**F**	**157**	**EDRE**	**225S4**	930	522
	32	8990	46.48*	89800	2.0	-		**FF**	**157**	**EDRE**	**225S4**	1030	523
	37	7750	40.06	87600	2.3	-							
	27	10700	55.31	66700	1.10	-							
	30	9440	48.80	66300	1.20	-		**FA**	**127**	**EDRE**	**225S4**	650	519
	35	8150	42.15	65500	1.30	-		**FAF**	**127**	**EDRE**	**225S4**	690	518
	40	7210	37.28	64600	1.45	-		**F**	**127**	**EDRE**	**225S4**	690	517
	47	6060	31.33	63200	1.65	-		**FF**	**127**	**EDRE**	**225S4**	730	518
	58	4890	25.30	61100	1.95	-							
	55	5200	26.86	61700	1.65	-		**FA**	**127**	**EDRE**	**225S4**	640	519
	60	4750	24.57	60800	1.80	-		**FAF**	**127**	**EDRE**	**225S4**	680	518
	69	4130	21.38	59300	2.2	-		**F**	**127**	**EDRE**	**225S4**	680	517
	78	3650	18.87	57900	2.5	-		**FF**	**127**	**EDRE**	**225S4**	720	518
	39	7280	37.61	39600	1.05	-		**FA**	**107**	**EDRE**	**225S4**	510	514
	47	6150	31.80	39700	1.15	-		**FAF**	**107**	**EDRE**	**225S4**	530	513
								F	**107**	**EDRE**	**225S4**	520	512
								FF	**107**	**EDRE**	**225S4**	550	513
	54	5330	27.57	39500	1.30	-							
	59	4860	25.14	39300	1.40	-							
	68	4210	21.76*	38800	1.60	-		**FA**	**107**	**EDRE**	**225S4**	500	514
	77	3710	19.20*	38300	1.80	-		**FAF**	**107**	**EDRE**	**225S4**	520	513
	89	3200	16.58	37500	2.1	-		**F**	**107**	**EDRE**	**225S4**	510	512
	101	2830	14.67	36900	2.3	-		**FF**	**107**	**EDRE**	**225S4**	540	513
	120	2380	12.33	35800	2.7	-							
	149	1920	9.96	34400	3.3	-							
	74	3880	20.07	15500	1.05	-	X						
	86	3330	17.25*	16000	1.20	-	X						
	98	2910	15.06	16300	1.35	-	X						
	116	2470	12.77	16400	1.55	-	X						
	133	2160	11.16	16400	1.70	-	X	**FA**	**97**	**EDRE**	**225S4**	425	509
	163	1750	9.06	15400	1.30	-	X	**FAF**	**97**	**EDRE**	**225S4**	450	508
	180	1590	8.22	15300	1.35	-	X	**F**	**97**	**EDRE**	**225S4**	435	507
	209	1360	7.07	15100	1.50	-	X	**FF**	**97**	**EDRE**	**225S4**	465	508
	240	1190	6.17	14900	1.65	-	X						
	283	1010	5.23	14600	1.85	-	X						
	324	880	4.57	14300	2.0	-	X						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
37	**22**	16200	68.28*	88400	1.10	-							
	25	14300	60.25	87800	1.25	-							
	28	12400	52.24	86700	1.45	-	**FA**	**157**	**EDRE**	**225M4**		930	524
	32	11000	46.48*	85600	1.60	-	**FAF**	**157**	**EDRE**	**225M4**		980	523
	37	9560	40.06	84000	1.90	-	**F**	**157**	**EDRE**	**225M4**		950	522
	45	7770	32.55	81300	2.2	-	**FF**	**157**	**EDRE**	**225M4**		1050	523
	54	6580	27.60	79000	2.5	-							
	35	10000	42.15	61000	1.05	-	**FA**	**127**	**EDRE**	**225M4**		670	519
	40	8890	37.28	60700	1.15	-	**FAF**	**127**	**EDRE**	**225M4**		710	518
	47	7470	31.33	59900	1.35	-	**F**	**127**	**EDRE**	**225M4**		710	517
	58	6040	25.30	58400	1.55	-	**FF**	**127**	**EDRE**	**225M4**		750	518
	55	6410	26.86	58900	1.35	-							
	60	5860	24.57	58200	1.45	-							
	69	5100	21.38	57100	1.80	-							
	78	4500	18.87	55900	2.0	-	**FA**	**127**	**EDRE**	**225M4**		660	519
	90	3900	16.36	54500	2.3	-	**FAF**	**127**	**EDRE**	**225M4**		700	518
	102	3470	14.55	53300	2.6	-	**F**	**127**	**EDRE**	**225M4**		700	517
	118	2990	12.54	51800	3.0	-	**FF**	**127**	**EDRE**	**225M4**		740	518
	145	2430	10.19	49500	3.7	-							
	167	2110	8.86	47700	3.2	-							
	188	1880	7.88	46400	3.2	-							
	54	6580	27.57	36200	1.05	-							
	59	6000	25.14	36300	1.15	-							
	68	5190	21.76*	36200	1.30	-							
	77	4580	19.20*	36000	1.45	-							
	89	3950	16.58	35600	1.70	-	**FA**	**107**	**EDRE**	**225M4**		520	514
	101	3500	14.67	35100	1.90	-	**FAF**	**107**	**EDRE**	**225M4**		540	513
	120	2940	12.33	34300	2.2	-	**F**	**107**	**EDRE**	**225M4**		530	512
	149	2370	9.96	33200	2.6	-	**FF**	**107**	**EDRE**	**225M4**		560	513
	153	2310	9.69	32400	2.1	-							
	177	1990	8.37	31700	2.4	-							
	200	1760	7.40	31000	2.6	-							
	238	1480	6.22	30000	3.1	-							

8.3 Selection tables for helical-bevel gearmotors /2GD T3

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.12	**0.08**	10800	17550	80300	1.20	-	X						
	0.09	9890	16006	80700	1.30	-	X						
	0.09	9260	14975	81000	1.40	-	X	**K**	**127R77**	**EDR**	**63S4**	470	582
	0.11	7690	12440	81600	1.70	-	X	**KF**	**127R77**	**EDR**	**63S4**	510	582
	0.13	6750	10915	81900	1.95	-	X	**KA**	**127R77**	**EDR**	**63S4**	440	582
	0.14	6070	9819	82000	2.1	-	X	**KAF**	**127R77**	**EDR**	**63S4**	480	582
	0.16	5180	8443	82300	2.5	-							
	0.18	4620	7482	82400	2.8	-							
	0.11	7550	12211	65000	1.05	-							
	0.13	6600	10677	65000	1.20	-	X						
	0.14	5890	9524	65000	1.35	-	X						
	0.17	5150	8328	65000	1.55	-	X	**K**	**107R77**	**EDR**	**63S4**	310	582
	0.19	4490	7270	65000	1.80	-	X	**KF**	**107R77**	**EDR**	**63S4**	320	582
	0.22	3700	6184	65000	2.2	-	X	**KA**	**107R77**	**EDR**	**63S4**	280	582
	0.24	3210	5662	65000	2.5	-	X	**KAF**	**107R77**	**EDR**	**63S4**	305	582
	0.27	2910	5138	65000	2.7	-	X						
	0.32	2670	4359	65000	3.0	-							
	0.23	4000	6027	40000	1.05	-							
	0.26	3650	5391	40000	1.20	-	X						
	0.30	3020	4669	40000	1.40	-	X	**K**	**97R57**	**EDR**	**63S4**	180	582
	0.34	2730	4082	40000	1.55	-	X	**KF**	**97R57**	**EDR**	**63S4**	200	582
	0.39	2370	3583	40000	1.80	-	X	**KA**	**97R57**	**EDR**	**63S4**	160	582
	0.44	2090	3108	40000	2.0	-		**KAF**	**97R57**	**EDR**	**63S4**	185	582
	0.50	1770	2757	40000	2.4	-							
	0.57	1650	2419	40000	2.6	-							
	0.65	1420	2123	40000	3.0	-							
	0.74	1270	1856	40000	3.4	-		**K**	**97R57**	**EDR**	**63S4**	180	582
	0.85	1040	1625	40000	4.1	-		**KF**	**97R57**	**EDR**	**63S4**	200	582
	0.96	890	1430	40000	4.8	-		**KA**	**97R57**	**EDR**	**63S4**	160	582
	1.1	860	1261	40000	5.0	-		**KAF**	**97R57**	**EDR**	**63S4**	185	582
	1.2	755	1102	40000	5.7	-							
	0.34	2680	4037	27300	1.00	-							
	0.38	2390	3609	27600	1.15	-		**K**	**87R57**	**EDR**	**63S4**	120	582
	0.44	2060	3107	28000	1.30	-	X	**KF**	**87R57**	**EDR**	**63S4**	130	582
	0.51	1730	2728	28300	1.55	-	X	**KA**	**87R57**	**EDR**	**63S4**	105	582
	0.58	1530	2371	28400	1.75	-	X	**KAF**	**87R57**	**EDR**	**63S4**	120	582
	0.66	1430	2088	28500	1.90	-							
	0.74	1270	1854	28600	2.1	-							
	0.83	1130	1657	28700	2.4	-							
	0.97	960	1415	28800	2.8	-		**K**	**87R57**	**EDR**	**63S4**	120	582
	1.1	830	1229	28900	3.2	-		**KF**	**87R57**	**EDR**	**63S4**	125	582
	1.3	720	1078	28900	3.7	-		**KA**	**87R57**	**EDR**	**63S4**	105	582
	1.4	610	951	29000	4.4	-		**KAF**	**87R57**	**EDR**	**63S4**	120	582
	1.6	520	837	29000	5.2	-							
	1.9	450	726	29000	5.9	-							
	0.58	1530	2370	15500	1.00	-		**K**	**77R37**	**EDR**	**63S4**	69	582
								KF	**77R37**	**EDR**	**63S4**	78	582
								KA	**77R37**	**EDR**	**63S4**	62	582
								KAF	**77R37**	**EDR**	**63S4**	70	582

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.12	**0.67**	1430	2050	16100	1.10	-								
	0.78	1220	1772	17300	1.25	-	X							
	0.91	1040	1514	18100	1.50	-	X							
	0.99	960	1388	18500	1.60	-	X	**K**	**77R37**	**EDR**	**63S4**		69	582
	1.1	840	1218	18900	1.85	-	X	**KF**	**77R37**	**EDR**	**63S4**		77	582
	1.3	735	1053	19200	2.1	-		**KA**	**77R37**	**EDR**	**63S4**		62	582
	1.5	645	924	19400	2.4	-		**KAF**	**77R37**	**EDR**	**63S4**		70	582
	1.7	570	815	19600	2.7	-								
	2.0	445	709	19800	3.5	-								
	2.2	390	622	19900	3.9	-								
	1.3	720	1034	11100	1.15	-								
	1.5	600	903	11900	1.35	-	X							
	1.7	570	793	12100	1.45	-	X							
	2.0	455	697	12600	1.80	-	X							
	2.2	400	613	12800	2.0	-	X							
	2.6	350	542	13000	2.3	-		**K**	**67R37**	**EDR**	**63S4**		45	582
	2.9	325	471	13000	2.5	-		**KF**	**67R37**	**EDR**	**63S4**		51	582
	3.3	270	420	13000	3.0	-		**KA**	**67R37**	**EDR**	**63S4**		42	582
	3.8	245	361	13000	3.3	-		**KAF**	**67R37**	**EDR**	**63S4**		48	582
	4.3	215	323	13000	3.8	-								
	5.0	181	279	13000	4.5	-								
	5.6	159	246	13000	5.2	-								
	6.4	139	217	13000	5.9	-								
	1.7	545	806	8060	1.10	-								
	2.0	455	699	8620	1.30	-	X							
	2.2	400	615	8870	1.50	-	X							
	2.5	350	544	9080	1.70	-	X							
	2.9	320	473	9190	1.85	-		**K**	**57R37**	**EDR**	**63S4**		39	582
	3.3	270	421	9390	2.2	-		**KF**	**57R37**	**EDR**	**63S4**		44	582
	3.8	245	362	9470	2.4	-		**KA**	**57R37**	**EDR**	**63S4**		37	582
	4.3	215	319	9570	2.8	-		**KAF**	**57R37**	**EDR**	**63S4**		43	582
	4.9	181	280	9690	3.3	-								
	5.6	160	246	9760	3.8	-								
	6.4	141	215	9810	4.3	-								
	7.2	126	192	9850	4.8	-								
	2.5	380	552	6170	1.05	-								
	2.8	320	495	6840	1.25	-	X	**K**	**47R37**	**EDR**	**63S4**		33	582
	3.2	285	426	7160	1.40	-	X	**KF**	**47R37**	**EDR**	**63S4**		36	582
	3.7	240	375	7510	1.65	-	X	**KA**	**47R37**	**EDR**	**63S4**		32	582
	4.2	225	327	7620	1.75	-		**KAF**	**47R37**	**EDR**	**63S4**		35	582
	4.8	198	289	7780	2.0	-								
	5.2	189	267	5760	1.05	-								
	5.9	163	234	6010	1.20	-		**K**	**37R17**	**EDR**	**63S4**		19	582
	6.7	142	205	6180	1.40	-		**KF**	**37R17**	**EDR**	**63S4**		21	582
	7.6	124	181	6300	1.60	-		**KA**	**37R17**	**EDR**	**63S4**		19	582
	8.6	109	160	6400	1.85	-		**KAF**	**37R17**	**EDR**	**63S4**		20	582
	10	91	136	6490	2.2	-								
	9.5	120	144.79*	13000	6.8	-		**K**	**67**	**EDR**	**63S4**		34	543
								KF	**67**	**EDR**	**63S4**		40	544
								KA	**67**	**EDR**	**63S4**		31	545
								KAF	**67**	**EDR**	**63S4**		37	544
	9.5	120	145.14*	9870	5.0	-								
	11	103	123.85	9920	5.8	-		**K**	**57**	**EDR**	**63S4**		28	538
	13	90	108.29	9950	6.7	-		**KF**	**57**	**EDR**	**63S4**		33	539
	13	85	102.88*	9960	7.0	-		**KA**	**57**	**EDR**	**63S4**		26	540
	15	75	90.26*	9990	8.0	-		**KAF**	**57**	**EDR**	**63S4**		32	539
	18	64	76.56*	10000	9.4	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.12	**10**	110	131.87*	8140	3.6	-		**K**	**47**	**EDR**	**63S4**	22	533
	11	101	121.48*	8170	4.0	-		**KF**	**47**	**EDR**	**63S4**	26	534
	13	87	104.37	8200	4.6	-		**KA**	**47**	**EDR**	**63S4**	22	535
								KAF	**47**	**EDR**	**63S4**	24	534
	13	88	106.38	6500	2.3	-							
	14	81	97.81	6530	2.5	-							
	16	70	83.69	6570	2.9	-							
	19	60	72.54	6600	3.3	-							
	20	56	67.80	6610	3.6	-							
	24	49	58.60	6430	4.1	-							
	28	41	49.79	6130	4.8	-							
	31	37	44.46	5930	5.4	-							
	36	32	37.97	5660	6.4	-		**K**	**37**	**EDR**	**63S4**	16	528
	39	30	35.57	5550	6.8	-		**KF**	**37**	**EDR**	**63S4**	18	529
	46	25	29.96	5270	8.0	-		**KA**	**37**	**EDR**	**63S4**	16	530
	48	24	28.83	5200	8.4	-		**KAF**	**37**	**EDR**	**63S4**	17	529
	55	21	24.99	4980	9.6	-							
	59	19	23.36	4880	10	-							
	68	17	20.19	4660	11	-							
	80	14	17.15	4430	13	-							
	90	13	15.31	4280	14	-							
	105	11	13.08	4070	15	-							
	114	10	12.14	3970	16	-							
0.18	**0.11**	12900	12440	79200	1.00	-							
	0.12	11300	10915	80100	1.15	-							
	0.14	10200	9819	80600	1.25	-	X						
	0.16	8750	8443	81200	1.50	-	X						
	0.18	7780	7482	81500	1.65	-		**K**	**127R77**	**EDR**	**63M4**	470	582
	0.20	6820	6565	81800	1.90	-		**KF**	**127R77**	**EDR**	**63M4**	510	582
	0.23	5800	5804	82100	2.2	-		**KA**	**127R77**	**EDR**	**63M4**	440	582
	0.27	5140	5027	82300	2.5	-		**KAF**	**127R77**	**EDR**	**63M4**	480	582
	0.30	4420	4423	82400	2.9	-							
	0.34	3850	3889	82500	3.4	-							
	0.40	3190	3311	82600	4.1	-							
	0.18	7560	7270	65000	1.05	-							
	0.22	6320	6184	65000	1.25	-	X						
	0.24	5610	5662	65000	1.45	-	X						
	0.26	5090	5138	65000	1.55	-	X	**K**	**107R77**	**EDR**	**63M4**	310	582
	0.31	4520	4359	65000	1.75	-	X	**KF**	**107R77**	**EDR**	**63M4**	320	582
	0.35	3950	3810	65000	2.0	-		**KA**	**107R77**	**EDR**	**63M4**	280	582
	0.40	3350	3358	65000	2.4	-		**KAF**	**107R77**	**EDR**	**63M4**	305	582
	0.45	3040	2977	65000	2.6	-							
	0.51	2650	2599	65000	3.0	-							
	0.58	2280	2286	65000	3.5	-							
	0.37	3890	3583	40000	1.10	-		**K**	**97R57**	**EDR**	**63M4**	180	582
	0.43	3410	3108	40000	1.25	-	X	**KF**	**97R57**	**EDR**	**63M4**	200	582
	0.48	2940	2757	40000	1.45	-	X	**KA**	**97R57**	**EDR**	**63M4**	160	582
								KAF	**97R57**	**EDR**	**63M4**	185	582

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.18	**0.55**	2680	2419	40000	1.60	-							
	0.63	2330	2123	40000	1.85	-							
	0.72	2060	1856	40000	2.1	-							
	0.82	1740	1625	40000	2.5	-							
	0.93	1500	1430	40000	2.8	-		**K**	**97R57**	**EDR**	**63M4**	180	582
	1.1	1400	1261	40000	3.1	-		**KF**	**97R57**	**EDR**	**63M4**	200	582
	1.2	1220	1102	40000	3.5	-		**KA**	**97R57**	**EDR**	**63M4**	160	582
	1.4	1070	957	40000	4.0	-		**KAF**	**97R57**	**EDR**	**63M4**	185	582
	1.6	950	855	40000	4.5	-							
	1.8	760	743	40000	5.6	-							
	2.0	680	652	40000	6.3	-							
	0.56	2530	2371	27500	1.05	-		**K**	**87R57**	**EDR**	**63M4**	120	582
								KF	**87R57**	**EDR**	**63M4**	130	582
								KA	**87R57**	**EDR**	**63M4**	105	582
								KAF	**87R57**	**EDR**	**63M4**	120	582
	0.64	2320	2088	27700	1.15	-							
	0.72	2060	1854	28000	1.30	-							
	0.81	1840	1657	28200	1.45	-							
	0.94	1570	1415	28400	1.70	-		**K**	**87R57**	**EDR**	**63M4**	120	582
	1.1	1360	1229	28600	2.00	-		**KF**	**87R57**	**EDR**	**63M4**	125	582
	1.2	1180	1078	28700	2.3	-		**KA**	**87R57**	**EDR**	**63M4**	105	582
	1.4	1010	951	28800	2.6	-		**KAF**	**87R57**	**EDR**	**63M4**	120	582
	1.6	880	837	28800	3.1	-							
	1.8	765	726	28900	3.5	-							
	0.96	1550	1388	15400	1.00	-							
	1.1	1360	1218	16600	1.15	-							
	1.3	1180	1053	17500	1.30	-							
	1.4	1040	924	18100	1.50	-							
	1.6	910	815	18600	1.70	-		**K**	**77R37**	**EDR**	**63M4**	69	582
	1.9	750	709	19100	2.1	-		**KF**	**77R37**	**EDR**	**63M4**	77	582
	2.1	655	622	19400	2.4	-		**KA**	**77R37**	**EDR**	**63M4**	62	582
	2.4	590	552	19500	2.6	-		**KAF**	**77R37**	**EDR**	**63M4**	70	582
	2.8	520	485	19700	3.0	-							
	3.1	455	428	19800	3.4	-							
	3.6	405	367	19800	3.8	-							
	1.9	750	697	10900	1.10	-							
	2.2	660	613	11500	1.25	-	X						
	2.5	580	542	12000	1.40	-	X	**K**	**67R37**	**EDR**	**63M4**	45	582
	2.8	530	471	12300	1.55	-		**KF**	**67R37**	**EDR**	**63M4**	51	582
	3.2	450	420	12600	1.80	-		**KA**	**67R37**	**EDR**	**63M4**	42	582
	3.7	400	361	12800	2.0	-		**KAF**	**67R37**	**EDR**	**63M4**	48	582
	4.1	355	323	13000	2.3	-							
	4.8	300	279	13000	2.7	-							
	2.5	580	544	7760	1.05	-							
	2.8	525	473	8200	1.15	-							
	3.2	450	421	8650	1.35	-							
	3.7	400	362	8860	1.50	-		**K**	**57R37**	**EDR**	**63M4**	39	582
	4.2	355	319	9070	1.70	-		**KF**	**57R37**	**EDR**	**63M4**	44	582
	4.8	300	280	9280	2.00	-		**KA**	**57R37**	**EDR**	**63M4**	37	582
	5.4	260	246	9410	2.3	-		**KAF**	**57R37**	**EDR**	**63M4**	43	582
	6.2	230	215	9520	2.6	-							
	7.0	205	192	9610	2.9	-							
	8.0	180	166	9700	3.3	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.18	**4.1**	365	327	6380	1.10	-							
	4.6	320	289	6850	1.25	-							
	5.2	275	256	7270	1.45	-	**K**	**47R37**	**EDR**	**63M4**		33	582
	6.0	245	225	7470	1.60	-	**KF**	**47R37**	**EDR**	**63M4**		36	582
	6.7	210	198	7700	1.90	-	**KA**	**47R37**	**EDR**	**63M4**		32	582
	7.8	185	171	7850	2.2	-	**KAF**	**47R37**	**EDR**	**63M4**		35	582
	8.7	166	153	7940	2.4	-							
	10	145	131	8020	2.8	-							
	8.3	177	160	5880	1.15	-	**K**	**37R17**	**EDR**	**63M4**		19	582
	9.8	149	136	6130	1.35	-	**KF**	**37R17**	**EDR**	**63M4**		21	582
	10	143	127	6170	1.40	-	**KA**	**37R17**	**EDR**	**63M4**		19	582
							KAF	**37R17**	**EDR**	**63M4**		20	582
	9.2	186	144.79*	13000	4.4	-	**K**	**67**	**EDR**	**63M4**		34	543
	11	159	123.54	13000	5.2	-	**KF**	**67**	**EDR**	**63M4**		40	544
	12	139	108.03	13000	5.9	-	**KA**	**67**	**EDR**	**63M4**		31	545
	13	132	102.62	13000	6.2	-	**KAF**	**67**	**EDR**	**63M4**		37	544
	9.2	187	145.14*	9670	3.2	-							
	11	160	123.85	9760	3.8	-	**K**	**57**	**EDR**	**63M4**		28	538
	12	139	108.29	9820	4.3	-	**KF**	**57**	**EDR**	**63M4**		33	539
	13	132	102.88*	9840	4.5	-	**KA**	**57**	**EDR**	**63M4**		26	540
	15	116	90.26*	9880	5.2	-	**KAF**	**57**	**EDR**	**63M4**		32	539
	17	99	76.56*	9930	6.1	-							
	10	170	131.87*	7920	2.4	-							
	11	156	121.48*	7980	2.6	-	**K**	**47**	**EDR**	**63M4**		22	533
	13	134	104.37	8060	3.0	-	**KF**	**47**	**EDR**	**63M4**		26	534
	15	117	90.86	8120	3.4	-	**KA**	**47**	**EDR**	**63M4**		22	535
	16	110	85.12*	8140	3.6	-	**KAF**	**47**	**EDR**	**63M4**		24	534
	13	137	106.38	6220	1.45	-							
	14	126	97.81	6290	1.60	-							
	16	108	83.69	6400	1.85	-							
	18	93	72.54	6470	2.1	-							
	20	87	67.80	6500	2.3	-							
	23	76	58.60	6260	2.6	-							
	27	64	49.79	6000	3.1	-							
	30	57	44.46	5810	3.5	-							
	35	49	37.97	5570	4.1	-							
	38	46	35.57	5460	4.4	-	**K**	**37**	**EDR**	**63M4**		16	528
	45	39	29.96	5200	5.2	-	**KF**	**37**	**EDR**	**63M4**		18	529
	46	37	28.83	5150	5.4	-	**KA**	**37**	**EDR**	**63M4**		16	530
	53	32	24.99	4940	6.2	-	**KAF**	**37**	**EDR**	**63M4**		17	529
	57	30	23.36	4840	6.5	-							
	66	26	20.19	4630	7.1	-							
	78	22	17.15	4410	8.1	-							
	87	20	15.31	4260	8.9	-							
	102	17	13.08	4060	9.8	-							
	110	16	12.14	3970	10	-							
	127	14	10.49	3790	11	-							
	150	12	8.91	3600	12	-							
	168	10	7.96	3480	13	-							
0.25	**0.17**	11900	8443	79800	1.10	-							
	0.19	10600	7482	80400	1.20	-							
	0.21	9320	6565	81000	1.40	-	**K**	**127R77**	**EDRS**	**71S4**		470	582
	0.24	7990	5804	81500	1.65	-	**KF**	**127R77**	**EDRS**	**71S4**		510	582
	0.28	7040	5027	81800	1.85	-	**KA**	**127R77**	**EDRS**	**71S4**		445	582
	0.32	6090	4423	82000	2.1	-	**KAF**	**127R77**	**EDRS**	**71S4**		480	582
	0.36	5320	3889	82200	2.4	-							
	0.42	4440	3311	82400	2.9	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.25	**0.25**	7740	5662	65000	1.05	-							
	0.27	7030	5138	65000	1.15	-							
	0.32	6170	4359	65000	1.30	-	X						
	0.37	5390	3810	65000	1.50	-	X	**K**	**107R77**	**EDRS**	**71S4**	310	582
	0.42	4620	3358	65000	1.75	-		**KF**	**107R77**	**EDRS**	**71S4**	325	582
	0.47	4170	2977	65000	1.90	-		**KA**	**107R77**	**EDRS**	**71S4**	285	582
	0.54	3640	2599	65000	2.2	-		**KAF**	**107R77**	**EDRS**	**71S4**	310	582
	0.61	3150	2286	65000	2.5	-							
	0.72	2670	1939	65000	3.0	-							
	0.82	2450	1713	65000	3.3	-		**K**	**107R77**	**EDRS**	**71S4**	310	582
	0.90	2220	1554	65000	3.6	-		**KF**	**107R77**	**EDRS**	**71S4**	325	582
	1.0	1910	1336	65000	4.2	-		**KA**	**107R77**	**EDRS**	**71S4**	285	582
								KAF	**107R77**	**EDRS**	**71S4**	305	582
	0.51	4000	2757	40000	1.05	-		**K**	**97R57**	**EDRS**	**71S4**	185	582
								KF	**97R57**	**EDRS**	**71S4**	205	582
								KA	**97R57**	**EDRS**	**71S4**	165	582
								KAF	**97R57**	**EDRS**	**71S4**	190	582
	0.58	3610	2419	40000	1.20	-							
	0.66	3140	2123	40000	1.35	-							
	0.76	2770	1856	40000	1.55	-							
	0.86	2360	1625	40000	1.80	-		**K**	**97R57**	**EDRS**	**71S4**	180	582
	0.98	2050	1430	40000	2.1	-		**KF**	**97R57**	**EDRS**	**71S4**	200	582
	1.1	1880	1261	40000	2.3	-		**KA**	**97R57**	**EDRS**	**71S4**	165	582
	1.3	1650	1102	40000	2.6	-		**KAF**	**97R57**	**EDRS**	**71S4**	190	582
	1.5	1440	957	40000	3.0	-							
	1.6	1290	855	40000	3.3	-							
	0.85	2480	1657	27600	1.10	-							
	0.99	2110	1415	27900	1.30	-							
	1.1	1830	1229	28200	1.45	-		**K**	**87R57**	**EDRS**	**71S4**	120	582
	1.3	1590	1078	28400	1.70	-		**KF**	**87R57**	**EDRS**	**71S4**	130	582
	1.5	1380	951	28600	1.95	-		**KA**	**87R57**	**EDRS**	**71S4**	110	582
	1.7	1200	837	28700	2.2	-		**KAF**	**87R57**	**EDRS**	**71S4**	120	582
	1.9	1040	726	28800	2.6	-							
	2.2	920	638	28800	2.9	-							
	1.5	1390	924	16400	1.10	-							
	1.7	1230	815	17300	1.25	-							
	2.0	1020	709	18200	1.50	-							
	2.3	890	622	18700	1.75	-							
	2.5	800	552	19000	1.90	-							
	2.9	705	485	19200	2.2	-		**K**	**77R37**	**EDRS**	**71S4**	72	582
	3.3	620	428	19400	2.5	-		**KF**	**77R37**	**EDRS**	**71S4**	80	582
	3.8	545	367	19600	2.8	-		**KA**	**77R37**	**EDRS**	**71S4**	64	582
	4.3	480	328	19700	3.2	-		**KAF**	**77R37**	**EDRS**	**71S4**	72	582
	4.8	430	290	19800	3.6	-							
	5.6	365	252	19900	4.2	-							
	6.4	320	221	20000	4.8	-							
	7.2	285	195	20000	5.4	-							
	8.0	250	175	20000	6.2	-							
	2.6	790	542	10600	1.05	-							
	3.0	715	471	11200	1.15	-							
	3.4	610	420	11800	1.35	-		**K**	**67R37**	**EDRS**	**71S4**	48	582
	3.9	540	361	12200	1.50	-		**KF**	**67R37**	**EDRS**	**71S4**	53	582
	4.4	480	323	12500	1.70	-		**KA**	**67R37**	**EDRS**	**71S4**	45	582
	5.0	405	279	12800	2.0	-		**KAF**	**67R37**	**EDRS**	**71S4**	51	582
	5.7	355	246	13000	2.3	-							
	6.5	315	217	13000	2.6	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.25	**3.9**	545	362	8070	1.10	-								
	4.4	475	319	8520	1.25	-								
	5.0	405	280	8850	1.45	-								
	5.7	355	246	9060	1.65	-								
	6.5	315	215	9220	1.90	-	**K**	**57R37**	**EDRS**	**71S4**	42	582
	7.3	280	192	9360	2.1	-	**KF**	**57R37**	**EDRS**	**71S4**	47	582
	8.4	240	166	9490	2.5	-	**KA**	**57R37**	**EDRS**	**71S4**	40	582
	9.7	210	145	9590	2.8	-	**KAF**	**57R37**	**EDRS**	**71S4**	45	582
	11	194	129	9650	3.1	-						
	13	163	111	9750	3.7	-						
	14	144	97	9800	4.2	-						
	7.3	325	192.18	20000	4.4	-	**K**	**77**	**EDRS**	**71S4**	62	548
	7.8	300	179.37	20000	4.8	-	**KF**	**77**	**EDRS**	**71S4**	71	549
	9.1	260	154.02	20000	5.9	-	**KA**	**77**	**EDRS**	**71S4**	55	550
	10	225	135.28	20000	6.7	-	**KAF**	**77**	**EDRS**	**71S4**	63	549
	9.7	245	144.79*	13000	3.3	-	**K**	**67**	**EDRS**	**71S4**	38	543
	11	205	123.54	13000	3.9	-	**KF**	**67**	**EDRS**	**71S4**	43	544
	13	184	108.03	13000	4.5	-	**KA**	**67**	**EDRS**	**71S4**	35	545
	14	174	102.62	13000	4.7	-	**KAF**	**67**	**EDRS**	**71S4**	41	544
	9.7	245	145.14*	9480	2.4	-						
	11	210	123.85	9600	2.8	-	**K**	**57**	**EDRS**	**71S4**	32	538
	13	184	108.29	9680	3.3	-	**KF**	**57**	**EDRS**	**71S4**	37	539
	14	175	102.88*	9710	3.4	-	**KA**	**57**	**EDRS**	**71S4**	30	540
	16	153	90.26*	9780	3.9	-	**KAF**	**57**	**EDRS**	**71S4**	36	539
	18	130	76.56*	9840	4.6	-						
	11	220	131.87*	7630	1.80	-						
	12	205	121.48*	7740	1.95	-	**K**	**47**	**EDRS**	**71S4**	26	533
	13	177	104.37	7890	2.3	-	**KF**	**47**	**EDRS**	**71S4**	29	534
	15	154	90.86	7990	2.6	-	**KA**	**47**	**EDRS**	**71S4**	25	535
	17	145	85.12*	8030	2.8	-	**KAF**	**47**	**EDRS**	**71S4**	28	534
	13	181	106.38	5840	1.10	-						
	14	166	97.81	5980	1.20	-						
	17	142	83.69	6180	1.40	-						
	19	123	72.54	6210	1.60	-						
	21	115	67.80	6120	1.75	-						
	24	100	58.60	5920	2.0	-						
	28	85	49.79	5700	2.4	-						
	32	76	44.46	5540	2.6	-						
	37	64	37.97	5320	3.1	-						
	40	60	35.57	5230	3.3	-						
	47	51	29.96	5000	3.9	-	**K**	**37**	**EDRS**	**71S4**	19	528
	49	49	28.83	4940	4.1	-	**KF**	**37**	**EDRS**	**71S4**	21	529
	56	42	24.99	4750	4.7	-	**KA**	**37**	**EDRS**	**71S4**	18	530
	60	40	23.36	4660	4.9	-	**KAF**	**37**	**EDRS**	**71S4**	20	529
	70	34	20.19	4480	5.4	-						
	82	29	17.15	4270	6.2	-						
	92	26	15.31	4130	6.7	-						
	107	22	13.08	3940	7.4	-						
	116	21	12.14	3850	7.7	-						
	134	18	10.49	3690	8.3	-						
	158	15	8.91	3510	9.2	-						
	177	14	7.96	3390	9.8	-						
	207	12	6.80	3230	11	-						
	221	11	6.37	3160	12	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.37	**0.24**	12600	5804	79400	1.05	-		**K**	**127R77**	**EDRS**	**71M4**		475	582
	0.27	11000	5027	80200	1.15	-		**KF**	**127R77**	**EDRS**	**71M4**		520	582
	0.31	9650	4423	80800	1.35	-		**KA**	**127R77**	**EDRS**	**71M4**		445	582
	0.35	8440	3889	81300	1.55	-		**KAF**	**127R77**	**EDRS**	**71M4**		485	582
	0.42	7110	3311	81700	1.85	-								
	0.71	4290	1926	82400	3.0	-		**K**	**127R77**	**EDRS**	**71M4**		475	582
	0.78	3910	1757	82500	3.3	-		**KF**	**127R77**	**EDRS**	**71M4**		520	582
	0.89	3400	1541	82600	3.8	-		**KA**	**127R77**	**EDRS**	**71M4**		445	582
								KAF	**127R77**	**EDRS**	**71M4**		485	582
	0.41	7320	3358	65000	1.10	-								
	0.46	6560	2977	65000	1.20	-	X	**K**	**107R77**	**EDRS**	**71M4**		315	582
	0.53	5720	2599	65000	1.40	-	X	**KF**	**107R77**	**EDRS**	**71M4**		325	582
	0.60	4980	2286	65000	1.60	-		**KA**	**107R77**	**EDRS**	**71M4**		285	582
	0.71	4230	1939	65000	1.90	-		**KAF**	**107R77**	**EDRS**	**71M4**		310	582
	0.80	3840	1713	65000	2.1	-		**K**	**107R77**	**EDRS**	**71M4**		315	582
	0.88	3490	1554	65000	2.3	-		**KF**	**107R77**	**EDRS**	**71M4**		325	582
	1.0	3000	1336	65000	2.7	-		**KA**	**107R77**	**EDRS**	**71M4**		285	582
	1.2	2620	1166	65000	3.0	-		**KAF**	**107R77**	**EDRS**	**71M4**		310	582
	0.74	4280	1856	40000	1.00	-								
	0.85	3680	1625	40000	1.15	-								
	0.96	3210	1430	40000	1.35	-								
	1.1	2910	1261	40000	1.50	-		**K**	**97R57**	**EDRS**	**71M4**		185	582
	1.2	2540	1102	40000	1.70	-		**KF**	**97R57**	**EDRS**	**71M4**		205	582
	1.4	2230	957	40000	1.95	-		**KA**	**97R57**	**EDRS**	**71M4**		165	582
	1.6	1990	855	40000	2.2	-		**KAF**	**97R57**	**EDRS**	**71M4**		190	582
	1.8	1650	743	40000	2.6	-								
	2.1	1460	652	40000	2.9	-								
	2.4	1310	573	40000	3.3	-								
	1.3	2470	1078	27600	1.10	-								
	1.4	2150	951	27900	1.25	-								
	1.6	1880	837	28200	1.45	-								
	1.9	1630	726	28400	1.65	-		**K**	**87R57**	**EDRS**	**71M4**		125	582
	2.2	1440	638	28500	1.85	-		**KF**	**87R57**	**EDRS**	**71M4**		135	582
	2.4	1260	562	28600	2.1	-		**KA**	**87R57**	**EDRS**	**71M4**		110	582
	2.9	1060	474	28800	2.5	-		**KAF**	**87R57**	**EDRS**	**71M4**		125	582
	3.2	950	426	28800	2.8	-								
	3.7	830	373	28900	3.2	-								
	2.2	1400	622	16300	1.10	-								
	2.5	1250	552	17200	1.25	-								
	2.8	1100	485	17900	1.40	-								
	3.2	970	428	18400	1.60	-								
	3.8	840	367	18900	1.85	-		**K**	**77R37**	**EDRS**	**71M4**		73	582
	4.2	750	328	19100	2.1	-		**KF**	**77R37**	**EDRS**	**71M4**		81	582
	4.7	665	290	19300	2.3	-		**KA**	**77R37**	**EDRS**	**71M4**		65	582
	5.4	570	252	19600	2.7	-		**KAF**	**77R37**	**EDRS**	**71M4**		73	582
	6.2	500	221	19700	3.1	-								
	7.0	440	195	19800	3.5	-								
	7.9	390	175	19900	3.9	-								
	8.9	345	154	19900	4.5	-								
	4.3	745	323	10900	1.10	-								
	4.9	630	279	11700	1.30	-								
	5.6	555	246	12100	1.45	-		**K**	**67R37**	**EDRS**	**71M4**		49	582
	6.3	495	217	12400	1.65	-		**KF**	**67R37**	**EDRS**	**71M4**		54	582
	7.2	435	191	12700	1.90	-		**KA**	**67R37**	**EDRS**	**71M4**		46	582
	8.3	375	166	12900	2.2	-		**KAF**	**67R37**	**EDRS**	**71M4**		52	582
	9.5	330	144	13000	2.5	-								
	11	280	122	13000	2.9	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.37	**5.6**	555	246	7960	1.05	-								
	6.4	490	215	8450	1.20	-								
	7.2	435	192	8720	1.35	-	**K**	**57R37**	**EDRS**	**71M4**	43	582
	8.3	375	166	8970	1.60	-	**KF**	**57R37**	**EDRS**	**71M4**	48	582
	9.5	330	145	9160	1.80	-	**KA**	**57R37**	**EDRS**	**71M4**	41	582
	11	295	129	9290	2.0	-	**KAF**	**57R37**	**EDRS**	**71M4**	47	582
	12	250	111	9450	2.4	-						
	14	220	97	9560	2.7	-						
	7.0	505	197.37	29000	5.3	-	**K**	**87**	**EDRS**	**71M4**	100	553
	7.9	445	174.19	29000	6.0	-	**KF**	**87**	**EDRS**	**71M4**	110	554
							KA	**87**	**EDRS**	**71M4**	88	555
							KAF	**87**	**EDRS**	**71M4**	100	554
	7.2	490	192.18	19700	2.9	-						
	7.7	460	179.37	19800	3.2	-	**K**	**77**	**EDRS**	**71M4**	65	548
	8.9	395	154.02	19900	3.9	-	**KF**	**77**	**EDRS**	**71M4**	73	549
	10	345	135.28	19900	4.5	-	**KA**	**77**	**EDRS**	**71M4**	57	550
	11	330	128.52	19900	4.7	-	**KAF**	**77**	**EDRS**	**71M4**	65	549
	12	290	113.56	20000	5.3	-						
	9.5	370	144.79*	12900	2.2	-						
	11	315	123.54	13000	2.6	-	**K**	**67**	**EDRS**	**71M4**	40	543
	13	275	108.03	13000	3.0	-	**KF**	**67**	**EDRS**	**71M4**	46	544
	13	260	102.62	13000	3.1	-	**KA**	**67**	**EDRS**	**71M4**	38	545
	15	230	90.04	13000	3.5	-	**KAF**	**67**	**EDRS**	**71M4**	43	544
	18	196	76.37	13000	4.2	-						
	9.5	370	145.14*	9000	1.60	-						
	11	315	123.85	9220	1.90	-						
	13	275	108.29	9370	2.2	-	**K**	**57**	**EDRS**	**71M4**	34	538
	13	260	102.88*	9420	2.3	-	**KF**	**57**	**EDRS**	**71M4**	39	539
	15	230	90.26*	9530	2.6	-	**KA**	**57**	**EDRS**	**71M4**	32	540
	18	197	76.56*	9640	3.0	-	**KAF**	**57**	**EDRS**	**71M4**	38	539
	20	178	69.12	9700	3.4	-						
	10	335	131.87*	6680	1.20	-						
	11	310	121.48*	6950	1.30	-						
	13	265	104.37	7320	1.50	-	**K**	**47**	**EDRS**	**71M4**	29	533
	15	230	90.86	7570	1.70	-	**KF**	**47**	**EDRS**	**71M4**	32	534
	16	215	85.12*	7660	1.85	-	**KA**	**47**	**EDRS**	**71M4**	28	535
	18	193	75.20*	7810	2.1	-	**KAF**	**47**	**EDRS**	**71M4**	31	534
	20	180	69.84	7880	2.2	-						
	22	163	63.30*	7950	2.5	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.37	**19**	186	72.54	5690	1.05	-							
	20	174	67.80	5640	1.15	-							
	23	151	58.60	5510	1.35	-							
	28	128	49.79	5350	1.55	-							
	31	114	44.46	5230	1.75	-							
	36	98	37.97	5060	2.0	-							
	39	91	35.57	4990	2.2	-							
	46	77	29.96	4800	2.6	-							
	48	74	28.83	4760	2.7	-							
	55	64	24.99	4590	3.1	-	**K**	**37**	**EDRS**	**71M4**	20	528
	59	60	23.36	4520	3.2	-	**KF**	**37**	**EDRS**	**71M4**	22	529
	68	52	20.19	4350	3.6	-	**KA**	**37**	**EDRS**	**71M4**	20	530
	80	44	17.15	4170	4.1	-	**KAF**	**37**	**EDRS**	**71M4**	21	529
	90	39	15.31	4040	4.4	-						
	105	34	13.08	3870	4.9	-						
	113	31	12.14	3790	5.1	-						
	131	27	10.49	3630	5.5	-						
	154	23	8.91	3460	6.1	-						
	173	20	7.96	3350	6.5	-						
	202	18	6.80	3200	7.3	-						
	216	16	6.37	3130	7.7	-						
	256	14	5.36	2980	8.7	-						
0.55	**0.10**	44100	14272	190000	1.15	-						
	0.11	40000	13116	190000	1.25	-	**K**	**187R97**	**EDRS**	**80S4**	1770	582
	0.12	34900	11647	190000	1.45	-	**KH**	**187R97**	**EDRS**	**80S4**	1700	582
	0.19	22600	7343	190000	2.2	-						
	0.14	31800	10264	150000	1.00	-						
	0.16	26600	8628	150000	1.20	-						
	0.22	20200	6562	150000	1.60	-	**K**	**167R97**	**EDRS**	**80S4**	1190	582
	0.26	16000	5355	150000	2.00	-	**KH**	**167R97**	**EDRS**	**80S4**	1150	582
	0.35	12400	4079	150000	2.6	-						
	0.36	12300	3979	114600	1.45	-	**K**	**157R97**	**EDRS**	**80S4**	790	582
	0.46	9430	3051	115400	1.90	-	**KF**	**157R97**	**EDRS**	**80S4**	870	582
							KA	**157R97**	**EDRS**	**80S4**	760	582
							KAF	**157R97**	**EDRS**	**80S4**	810	582
	0.36	12500	3889	79400	1.05	-	**K**	**127R77**	**EDRS**	**80S4**	475	582
	0.43	10500	3311	80400	1.25	-	**KF**	**127R77**	**EDRS**	**80S4**	520	582
	0.47	9570	3009	80900	1.35	-	**KA**	**127R77**	**EDRS**	**80S4**	450	582
	0.54	8220	2607	81400	1.60	-	**KAF**	**127R77**	**EDRS**	**80S4**	485	582
	0.73	6350	1926	82000	2.0	-						
	0.81	5790	1757	82100	2.2	-	**K**	**127R77**	**EDRS**	**80S4**	475	582
	0.92	5040	1541	82300	2.6	-	**KF**	**127R77**	**EDRS**	**80S4**	520	582
	1.0	4420	1342	82400	2.9	-	**KA**	**127R77**	**EDRS**	**80S4**	445	582
	1.2	3850	1177	82500	3.4	-	**KAF**	**127R77**	**EDRS**	**80S4**	485	582
	1.4	3370	1025	82600	3.8	-						
	0.62	7390	2286	65000	1.10	-	**K**	**107R77**	**EDRS**	**80S4**	315	582
	0.73	6270	1939	65000	1.30	-	**KF**	**107R77**	**EDRS**	**80S4**	325	582
							KA	**107R77**	**EDRS**	**80S4**	290	582
							KAF	**107R77**	**EDRS**	**80S4**	310	582
	0.83	5670	1713	65000	1.40	-						
	0.91	5140	1554	65000	1.55	-						
	1.1	4420	1336	65000	1.80	-						
	1.2	3860	1166	65000	2.1	-	**K**	**107R77**	**EDRS**	**80S4**	315	582
	1.4	3310	1030	65000	2.4	-	**KF**	**107R77**	**EDRS**	**80S4**	325	582
	1.6	2880	904	65000	2.8	-	**KA**	**107R77**	**EDRS**	**80S4**	285	582
	1.8	2610	793	65000	3.1	-	**KAF**	**107R77**	**EDRS**	**80S4**	310	582
	2.0	2270	696	65000	3.5	-						
	2.3	1960	615	65000	4.1	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.55	**1.1**	4250	1261	40000	1.00	-								
	1.3	3720	1102	40000	1.15	-								
	1.5	3260	957	40000	1.30	-								
	1.6	2910	855	40000	1.50	-								
	1.9	2440	743	40000	1.75	-	**K**	**97R57**	**EDRS**	**80S4**	185	582
	2.2	2150	652	40000	2.0	-	**KF**	**97R57**	**EDRS**	**80S4**	205	582
	2.5	1930	573	40000	2.2	-	**KA**	**97R57**	**EDRS**	**80S4**	165	582
	2.8	1640	504	40000	2.6	-	**KAF**	**97R57**	**EDRS**	**80S4**	190	582
	3.2	1410	437	40000	3.0	-						
	3.7	1260	382	40000	3.4	-						
	4.6	1020	305	40000	4.2	-						
	2.0	2400	726	27600	1.10	-						
	2.2	2120	638	27900	1.25	-						
	2.5	1860	562	28200	1.45	-						
	3.0	1560	474	28400	1.70	-						
	3.3	1410	426	28500	1.90	-	**K**	**87R57**	**EDRS**	**80S4**	125	582
	3.8	1230	373	28600	2.2	-	**KF**	**87R57**	**EDRS**	**80S4**	135	582
	4.3	1080	330	28700	2.5	-	**KA**	**87R57**	**EDRS**	**80S4**	110	582
	4.8	960	294	28800	2.8	-	**KAF**	**87R57**	**EDRS**	**80S4**	125	582
	5.7	830	250	28900	3.2	-						
	6.0	785	236	28900	3.4	-						
	7.0	665	201	28900	4.0	-						
	3.3	1420	428	16200	1.10	-						
	3.9	1230	367	17300	1.25	-						
	4.3	1100	328	17900	1.40	-						
	4.9	970	290	18400	1.60	-	**K**	**77R37**	**EDRS**	**80S4**	76	582
	5.6	840	252	18900	1.85	-	**KF**	**77R37**	**EDRS**	**80S4**	84	582
	6.4	735	221	19200	2.1	-	**KA**	**77R37**	**EDRS**	**80S4**	68	582
	7.2	650	195	19400	2.4	-	**KAF**	**77R37**	**EDRS**	**80S4**	76	582
	8.1	575	175	19500	2.7	-						
	9.2	510	154	19700	3.0	-						
	5.8	810	246	10300	1.00	-						
	6.5	725	217	11000	1.10	-	**K**	**67R37**	**EDRS**	**80S4**	52	582
	7.4	640	191	11700	1.30	-	**KF**	**67R37**	**EDRS**	**80S4**	57	582
	8.5	550	166	12200	1.50	-	**KA**	**67R37**	**EDRS**	**80S4**	49	582
	9.8	485	144	12500	1.70	-	**KAF**	**67R37**	**EDRS**	**80S4**	55	582
	12	410	122	12800	2.00	-						
	8.5	555	166	7990	1.10	-						
	9.8	485	145	8480	1.25	-	**K**	**57R37**	**EDRS**	**80S4**	46	582
	11	435	129	8710	1.35	-	**KF**	**57R37**	**EDRS**	**80S4**	51	582
	13	370	111	9000	1.60	-	**KA**	**57R37**	**EDRS**	**80S4**	44	582
	15	325	97	9180	1.85	-	**KAF**	**57R37**	**EDRS**	**80S4**	49	582
	7.2	730	197.37	28900	3.7	-	**K**	**87**	**EDRS**	**80S4**	100	553
	8.1	645	174.19	28900	4.2	-	**KF**	**87**	**EDRS**	**80S4**	110	554
	8.6	610	164.34*	29000	4.4	-	**KA**	**87**	**EDRS**	**80S4**	89	555
	9.6	545	147.32*	29000	4.9	-	**KAF**	**87**	**EDRS**	**80S4**	100	554
	9.2	570	154.02	19600	2.7	-						
	10	500	135.28	19700	3.1	-	**K**	**77**	**EDRS**	**80S4**	66	548
	11	475	128.52	19700	3.2	-	**KF**	**77**	**EDRS**	**80S4**	74	549
	12	420	113.56	19800	3.7	-	**KA**	**77**	**EDRS**	**80S4**	58	550
	15	360	97.05	19900	4.1	-	**KAF**	**77**	**EDRS**	**80S4**	66	549
	11	455	123.54	12600	1.80	-						
	13	400	108.03	12800	2.0	-	**K**	**67**	**EDRS**	**80S4**	41	543
	14	380	102.62	12900	2.2	-	**KF**	**67**	**EDRS**	**80S4**	47	544
	16	330	90.04	13000	2.4	-	**KA**	**67**	**EDRS**	**80S4**	38	545
	19	280	76.37	13000	2.9	-	**KAF**	**67**	**EDRS**	**80S4**	44	544

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.55	**11**	455	123.85	8610	1.30	-							
	13	400	108.29	8870	1.50	-							
	14	380	102.88*	8960	1.55	-	**K**	**57**	**EDRS**	**80S4**		35	538
	16	335	90.26*	9150	1.80	-	**KF**	**57**	**EDRS**	**80S4**		40	539
	18	280	76.56*	9340	2.1	-	**KA**	**57**	**EDRS**	**80S4**		33	540
	20	255	69.12	9440	2.3	-	**KAF**	**57**	**EDRS**	**80S4**		39	539
	23	225	60.81*	9550	2.7	-							
	25	210	57.42*	9590	2.8	-							
	14	385	104.37	6100	1.05	-							
	16	335	90.86	6700	1.20	-							
	17	315	85.12*	6910	1.25	-							
	19	275	75.20*	7240	1.45	-	**K**	**47**	**EDRS**	**80S4**		29	533
	20	255	69.84	7390	1.55	-	**KF**	**47**	**EDRS**	**80S4**		33	534
	22	230	63.30*	7560	1.70	-	**KA**	**47**	**EDRS**	**80S4**		28	535
	25	210	56.83	7710	1.90	-	**KAF**	**47**	**EDRS**	**80S4**		31	534
	29	182	48.95*	7860	2.2	-							
	31	171	46.03*	7920	2.3	-							
	28	185	49.79	4770	1.10	-							
	32	165	44.46	4710	1.20	-							
	37	141	37.97	4610	1.40	-							
	40	132	35.57	4570	1.50	-							
	47	111	29.96	4440	1.80	-							
	49	107	28.83	4400	1.85	-							
	57	93	24.99	4280	2.2	-							
	61	87	23.36	4220	2.2	-							
	70	75	20.19	4090	2.5	-	**K**	**37**	**EDRS**	**80S4**		23	528
	82	64	17.15	3940	2.8	-	**KF**	**37**	**EDRS**	**80S4**		25	529
	92	57	15.31	3840	3.1	-	**KA**	**37**	**EDRS**	**80S4**		22	530
	108	49	13.08	3690	3.4	-	**KAF**	**37**	**EDRS**	**80S4**		24	529
	117	45	12.14	3620	3.5	-							
	135	39	10.49	3490	3.8	-							
	159	33	8.91	3340	4.2	-							
	178	30	7.96	3230	4.5	-							
	208	25	6.80	3090	5.1	-							
	222	24	6.37	3040	5.3	-							
	264	20	5.36	2890	6.0	-							
	356	15	3.98	2650	7.3	-							
0.75	**0.12**	48600	11647	190000	1.05	-							
	0.20	31300	7343	190000	1.60	-	**K**	**187R97**	**EDRE**	**80M4**		1770	582
	0.21	28500	6747	190000	1.75	-	**KH**	**187R97**	**EDRE**	**80M4**		1700	582
	0.24	25000	5991	190000	2.0	-							
	0.22	28000	6562	150000	1.15	-							
	0.27	22300	5355	150000	1.45	-	**K**	**167R97**	**EDRE**	**80M4**		1190	582
	0.35	17200	4079	150000	1.85	-	**KH**	**167R97**	**EDRE**	**80M4**		1150	582
	0.43	14400	3376	150000	2.2	-							
	0.36	16900	3979	112700	1.05	-	**K**	**157R97**	**EDRE**	**80M4**		800	582
	0.47	13000	3051	114300	1.40	-	**KF**	**157R97**	**EDRE**	**80M4**		870	582
							KA	**157R97**	**EDRE**	**80M4**		760	582
							KAF	**157R97**	**EDRE**	**80M4**		820	582
	0.87	7160	1659	116000	2.5	-	**K**	**157R97**	**EDRE**	**80M4**		790	582
	1.0	5770	1365	116200	3.1	-	**KF**	**157R97**	**EDRE**	**80M4**		870	582
							KA	**157R97**	**EDRE**	**80M4**		760	582
							KAF	**157R97**	**EDRE**	**80M4**		810	582
	0.55	11200	2607	80100	1.15	-	**K**	**127R77**	**EDRE**	**80M4**		480	582
							KF	**127R77**	**EDRE**	**80M4**		520	582
							KA	**127R77**	**EDRE**	**80M4**		450	582
							KAF	**127R77**	**EDRE**	**80M4**		490	582

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.75	**0.74**	8650	1926	81200	1.50	-								
	0.82	7880	1757	81500	1.65	-								
	0.93	6880	1541	81800	1.90	-		**K**	**127R77**	**EDRE**	**80M4**		475	582
	1.1	6020	1342	82100	2.2	-		**KF**	**127R77**	**EDRE**	**80M4**		520	582
	1.2	5250	1177	82200	2.5	-		**KA**	**127R77**	**EDRE**	**80M4**		450	582
	1.4	4600	1025	82400	2.8	-		**KAF**	**127R77**	**EDRE**	**80M4**		485	582
	1.6	4010	899	82500	3.2	-								
	0.84	7710	1713	65000	1.05	-								
	0.92	7000	1554	65000	1.15	-								
	1.1	6020	1336	65000	1.35	-								
	1.2	5250	1166	65000	1.50	-		**K**	**107R77**	**EDRE**	**80M4**		315	582
	1.4	4540	1030	65000	1.75	-		**KF**	**107R77**	**EDRE**	**80M4**		330	582
	1.6	3960	904	65000	2.0	-		**KA**	**107R77**	**EDRE**	**80M4**		290	582
	1.8	3560	793	65000	2.2	-		**KAF**	**107R77**	**EDRE**	**80M4**		315	582
	2.1	3100	696	65000	2.6	-								
	2.3	2690	615	65000	3.0	-								
	1.7	3940	855	40000	1.10	-								
	1.9	3320	743	40000	1.30	-								
	2.2	2930	652	40000	1.45	-								
	2.5	2620	573	40000	1.65	-								
	2.8	2250	504	40000	1.90	-		**K**	**97R57**	**EDRE**	**80M4**		190	582
	3.3	1940	437	40000	2.2	-		**KF**	**97R57**	**EDRE**	**80M4**		210	582
	3.8	1720	382	40000	2.5	-		**KA**	**97R57**	**EDRE**	**80M4**		170	582
	4.7	1390	305	40000	3.1	-		**KAF**	**97R57**	**EDRE**	**80M4**		195	582
	5.6	1170	258	40000	3.7	-								
	6.2	1050	232	40000	4.1	-								
	7.2	890	199	40000	4.8	-								
	2.6	2530	562	27500	1.05	-								
	3.0	2130	474	27900	1.25	-								
	3.4	1910	426	28100	1.40	-								
	3.8	1680	373	28300	1.60	-		**K**	**87R57**	**EDRE**	**80M4**		125	582
	4.4	1470	330	28500	1.85	-		**KF**	**87R57**	**EDRE**	**80M4**		135	582
	4.9	1310	294	28600	2.0	-		**KA**	**87R57**	**EDRE**	**80M4**		115	582
	5.7	1130	250	28700	2.4	-		**KAF**	**87R57**	**EDRE**	**80M4**		130	582
	6.1	1070	236	28700	2.5	-								
	7.1	910	201	28800	3.0	-								
	4.4	1490	328	15800	1.05	-		**K**	**77R37**	**EDRE**	**80M4**		79	582
	5.0	1320	290	16800	1.15	-		**KF**	**77R37**	**EDRE**	**80M4**		87	582
	5.7	1140	252	17700	1.35	-		**KA**	**77R37**	**EDRE**	**80M4**		71	582
	6.5	1000	221	18300	1.55	-		**KAF**	**77R37**	**EDRE**	**80M4**		79	582
	7.3	980	197.37	28800	2.7	-								
	8.2	860	174.19	28800	3.1	-		**K**	**87**	**EDRE**	**80M4**		105	553
	8.7	820	164.34*	28900	3.3	-		**KF**	**87**	**EDRE**	**80M4**		115	554
	9.7	735	147.32*	28900	3.7	-		**KA**	**87**	**EDRE**	**80M4**		92	555
	11	630	126.91*	28900	4.3	-		**KAF**	**87**	**EDRE**	**80M4**		105	554
	9.3	765	154.02	19100	2.0	-								
	11	675	135.28	19300	2.3	-		**K**	**77**	**EDRE**	**80M4**		68	548
	11	640	128.52	19400	2.4	-		**KF**	**77**	**EDRE**	**80M4**		77	549
	13	565	113.56	19600	2.7	-		**KA**	**77**	**EDRE**	**80M4**		61	550
	15	480	97.05	19700	3.0	-		**KAF**	**77**	**EDRE**	**80M4**		69	549
	16	440	88.97	19800	3.2	-								
	12	615	123.54	11800	1.35	-								
	13	535	108.03	12200	1.50	-								
	16	445	90.04	12600	1.80	-		**K**	**67**	**EDRE**	**80M4**		44	543
	19	380	76.37	12900	2.2	-		**KF**	**67**	**EDRE**	**80M4**		49	544
	21	340	68.95	13000	2.4	-		**KA**	**67**	**EDRE**	**80M4**		41	545
	24	300	60.66	13000	2.6	-		**KAF**	**67**	**EDRE**	**80M4**		47	544
	25	285	57.28	13000	2.7	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.75	**13**	540	108.29	8110	1.10	-							
	14	510	102.88*	8320	1.15	-							
	16	450	90.26*	8660	1.35	-							
	19	380	76.56*	8960	1.55	-	**K**	**57**	**EDRE**	**80M4**		38	538
	21	345	69.12	9110	1.75	-	**KF**	**57**	**EDRE**	**80M4**		43	539
	24	300	60.81*	9270	2.00	-	**KA**	**57**	**EDRE**	**80M4**		36	540
	25	285	57.42*	9340	2.1	-	**KAF**	**57**	**EDRE**	**80M4**		41	539
	29	240	48.89	9490	2.5	-							
	32	220	44.43	9560	2.7	-							
	19	375	75.20*	6260	1.05	-							
	21	345	69.84	6570	1.15	-							
	23	315	63.30*	6910	1.25	-							
	25	280	56.83	7200	1.40	-	**K**	**47**	**EDRE**	**80M4**		32	533
	29	240	48.95*	7500	1.65	-	**KF**	**47**	**EDRE**	**80M4**		35	534
	31	225	46.03*	7600	1.75	-	**KA**	**47**	**EDRE**	**80M4**		31	535
	36	198	39.61	7780	2.0	-	**KAF**	**47**	**EDRE**	**80M4**		34	534
	41	177	35.39	7700	2.3	-							
	46	156	31.30	7490	2.6	-							
	38	190	37.97	4140	1.05	-							
	40	178	35.57	4130	1.15	-							
	48	150	29.96	4060	1.35	-							
	50	144	28.83	4040	1.40	-							
	57	125	24.99	3970	1.60	-							
	61	117	23.36	3930	1.65	-							
	71	101	20.19	3840	1.85	-							
	84	86	17.15	3720	2.1	-	**K**	**37**	**EDRE**	**80M4**		25	528
	94	76	15.31	3640	2.3	-	**KF**	**37**	**EDRE**	**80M4**		28	529
	110	65	13.08	3520	2.5	-	**KA**	**37**	**EDRE**	**80M4**		25	530
	118	61	12.14	3460	2.6	-	**KAF**	**37**	**EDRE**	**80M4**		27	529
	137	52	10.49	3350	2.8	-							
	161	44	8.91	3220	3.1	-							
	180	40	7.96	3130	3.4	-							
	211	34	6.80	3000	3.8	-							
	225	32	6.37	2950	4.0	-							
	268	27	5.36	2810	4.5	-							
	361	20	3.98	2590	5.4	-							
1.1	**0.19**	47600	7343	190000	1.05	-							
	0.21	43500	6747	190000	1.15	-							
	0.24	38300	5991	190000	1.30	-	**K**	**187R97**	**EDRE**	**90M4**		1770	582
	0.27	33900	5358	190000	1.45	-	**KH**	**187R97**	**EDRE**	**90M4**		1710	582
	0.29	30200	4817	190000	1.65	-							
	0.32	27400	4370	190000	1.80	-							
	0.30	30300	4788	150000	1.05	-							
	0.35	26300	4079	150000	1.20	-	**K**	**167R97**	**EDRE**	**90M4**		1190	582
	0.42	21900	3376	150000	1.45	-	**KH**	**167R97**	**EDRE**	**90M4**		1150	582
	0.52	17600	2755	150000	1.80	-							
	0.65	14300	2182	150000	2.2	-							
	0.83	11100	1704	150000	2.9	-	**K**	**167R97**	**EDRE**	**90M4**		1190	582
	1.0	9240	1408	150000	3.5	-	**KH**	**167R97**	**EDRE**	**90M4**		1150	582
	1.1	8460	1296	150000	3.8	-							
	0.54	16300	2610	113000	1.10	-	**K**	**157R97**	**EDRE**	**90M4**		800	582
	0.61	14500	2322	113700	1.25	-	**KF**	**157R97**	**EDRE**	**90M4**		880	582
							KA	**157R97**	**EDRE**	**90M4**		760	582
							KAF	**157R97**	**EDRE**	**90M4**		820	582

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
1.1	**0.86**	10800	1659	115000	1.65	-								
	1.0	8840	1365	115600	2.0	-		**K**	**157R97**	**EDRE**	**90M4**		800	582
	1.2	7880	1229	115800	2.3	-		**KF**	**157R97**	**EDRE**	**90M4**		870	582
	1.3	7010	1093	116000	2.6	-		**KA**	**157R97**	**EDRE**	**90M4**		760	582
	1.5	6040	942	116200	3.0	-		**KAF**	**157R97**	**EDRE**	**90M4**		820	582
	1.7	5420	854	116300	3.3	-								
	0.74	12900	1926	79200	1.00	-								
	0.81	11800	1757	79800	1.10	-								
	0.92	10300	1541	80500	1.25	-								
	1.1	9030	1342	81100	1.45	-								
	1.2	7900	1177	81500	1.65	-		**K**	**127R77**	**EDRE**	**90M4**		480	582
	1.4	6900	1025	81800	1.90	-		**KF**	**127R77**	**EDRE**	**90M4**		520	582
	1.6	6030	899	82000	2.2	-		**KA**	**127R77**	**EDRE**	**90M4**		455	582
	1.8	5190	790	82300	2.5	-		**KAF**	**127R77**	**EDRE**	**90M4**		490	582
	2.0	4700	704	82400	2.8	-								
	2.3	4040	610	82500	3.2	-								
	2.6	3650	549	82600	3.6	-								
	3.0	3140	477	82600	4.1	-								
	1.2	7870	1166	65000	1.00	-								
	1.4	6860	1030	65000	1.15	-	X							
	1.6	5990	904	65000	1.35	-								
	1.8	5340	793	65000	1.50	-								
	2.0	4670	696	65000	1.70	-		**K**	**107R77**	**EDRE**	**90M4**		320	582
	2.3	4080	615	65000	1.95	-		**KF**	**107R77**	**EDRE**	**90M4**		335	582
	2.7	3460	522	65000	2.3	-		**KA**	**107R77**	**EDRE**	**90M4**		295	582
	3.1	3040	461	65000	2.6	-		**KAF**	**107R77**	**EDRE**	**90M4**		315	582
	3.5	2680	408	65000	3.0	-								
	3.9	2420	364	65000	3.3	-								
	4.5	2120	318	65000	3.8	-								
	2.5	3920	573	40000	1.10	-								
	2.8	3380	504	40000	1.25	-		**K**	**97R57**	**EDRE**	**90M4**		190	582
	3.2	2920	437	40000	1.45	-		**KF**	**97R57**	**EDRE**	**90M4**		210	582
	3.7	2580	382	40000	1.65	-		**KA**	**97R57**	**EDRE**	**90M4**		175	582
	4.2	2280	342	40000	1.90	-		**KAF**	**97R57**	**EDRE**	**90M4**		200	582
	3.8	2530	373	27500	1.05	-								
	4.3	2210	330	27800	1.20	-		**K**	**87R57**	**EDRE**	**90M4**		130	582
	4.8	1980	294	28100	1.35	-		**KF**	**87R57**	**EDRE**	**90M4**		140	582
	5.7	1700	250	28300	1.60	-		**KA**	**87R57**	**EDRE**	**90M4**		120	582
	6.0	1610	236	28400	1.70	-		**KAF**	**87R57**	**EDRE**	**90M4**		130	582
	7.1	1360	201	28600	1.95	-								
	8.1	1300	176.05*	40000	3.3	-		**K**	**97**	**EDRE**	**90M4**		170	558
	9.3	1130	153.21*	40000	3.8	-		**KF**	**97**	**EDRE**	**90M4**		190	559
	10	1030	140.28	40000	4.1	-		**KA**	**97**	**EDRE**	**90M4**		150	560
	11	910	123.93*	40000	4.7	-		**KAF**	**97**	**EDRE**	**90M4**		175	559
	8.2	1280	174.19	28600	2.1	-								
	8.6	1210	164.34*	28700	2.2	-		**K**	**87**	**EDRE**	**90M4**		110	553
	9.6	1080	147.32*	28700	2.5	-		**KF**	**87**	**EDRE**	**90M4**		120	554
	11	930	126.91*	28800	2.9	-		**KA**	**87**	**EDRE**	**90M4**		96	555
	12	850	115.82	28900	3.2	-		**KAF**	**87**	**EDRE**	**90M4**		110	554
	10	1000	135.28	18300	1.55	-								
	11	950	128.52	18500	1.65	-								
	12	840	113.56	18900	1.85	-		**K**	**77**	**EDRE**	**90M4**		72	548
	15	715	97.05	19200	2.0	-		**KF**	**77**	**EDRE**	**90M4**		81	549
	16	655	88.97	19400	2.2	-		**KA**	**77**	**EDRE**	**90M4**		65	550
	18	575	78.07	19500	2.4	-		**KAF**	**77**	**EDRE**	**90M4**		73	549
	19	545	73.99	19600	2.5	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
1.1	**13**	795	108.03	10500	1.05	-							
	14	755	102.62	10800	1.10	-							
	16	665	90.04	11500	1.25	-							
	19	560	76.37	12100	1.45	-	**K**	**67**	**EDRE**	**90M4**		48	543
	21	510	68.95	12400	1.60	-	**KF**	**67**	**EDRE**	**90M4**		53	544
	23	445	60.66	12600	1.75	-	**KA**	**67**	**EDRE**	**90M4**		45	545
	25	420	57.28	12700	1.80	-	**KAF**	**67**	**EDRE**	**90M4**		51	544
	29	360	48.77	12900	2.1	-							
	32	325	44.32	13000	2.3	-							
	37	280	38.39	13000	2.5	-							
	19	565	76.56*	7900	1.05	-							
	21	510	69.12	8330	1.15	-							
	23	445	60.81*	8660	1.35	-							
	25	420	57.42*	8770	1.40	-							
	29	360	48.89	9040	1.65	-							
	32	325	44.43	9180	1.85	-							
	37	280	38.49	9340	2.1	-							
	40	260	35.70	9420	2.3	-							
	47	220	30.28	9550	2.7	-							
	52	200	27.34	9480	2.9	-							
	59	178	24.05	9190	3.2	-	**K**	**57**	**EDRE**	**90M4**		42	538
	63	168	22.71	9060	3.3	-	**KF**	**57**	**EDRE**	**90M4**		46	539
	73	143	19.34	8690	3.7	-	**KA**	**57**	**EDRE**	**90M4**		40	540
	81	130	17.57	8470	4.0	-	**KAF**	**57**	**EDRE**	**90M4**		45	539
	93	113	15.22	8150	4.4	-							
	107	98	13.25	7850	4.9	-							
	119	88	11.92	7540	4.0	-							
	126	83	11.26	7420	4.1	-							
	148	71	9.59	7090	4.6	-							
	163	64	8.71	6900	5.0	-							
	188	56	7.55	6620	5.6	-							
	216	49	6.57	6360	6.2	-							
	303	35	4.69	5750	7.8	-							
	29	360	48.95*	6420	1.10	-							
	31	340	46.03*	6660	1.15	-							
	36	290	39.61	7120	1.35	-							
	40	260	35.39	7080	1.55	-	**K**	**47**	**EDRE**	**90M4**		36	533
	45	230	31.30	6940	1.75	-	**KF**	**47**	**EDRE**	**90M4**		39	534
	48	215	29.32	6870	1.85	-	**KA**	**47**	**EDRE**	**90M4**		35	535
	55	192	25.91	6720	2.1	-	**KAF**	**47**	**EDRE**	**90M4**		38	534
	65	161	21.81	6490	2.5	-							
	73	145	19.58	6340	2.7	-							
	57	185	24.99	3440	1.10	-							
	61	173	23.36	3440	1.15	-							
	70	149	20.19	3410	1.25	-							
	83	127	17.15	3360	1.40	-							
	93	113	15.31	3320	1.55	-							
	109	97	13.08	3250	1.70	-	**K**	**37**	**EDRE**	**90M4**		29	528
	117	90	12.14	3210	1.75	-	**KF**	**37**	**EDRE**	**90M4**		31	529
	135	78	10.49	3130	1.90	-	**KA**	**37**	**EDRE**	**90M4**		29	530
	159	66	8.91	3040	2.1	-	**KAF**	**37**	**EDRE**	**90M4**		30	529
	178	59	7.96	2960	2.3	-							
	209	50	6.80	2860	2.5	-							
	223	47	6.37	2820	2.7	-							
	265	40	5.36	2710	3.0	-							
	357	29	3.98	2510	3.7	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
1.5	**0.27**	46900	5358	190000	1.05	-								
	0.30	41800	4817	190000	1.20	-		**K**	**187R97**	**EDRE**	**90L4**		1780	582
	0.33	37900	4370	190000	1.30	-		**KH**	**187R97**	**EDRE**	**90L4**		1710	582
	0.40	32500	3609	190000	1.55	-								
	0.47	27500	3062	190000	1.80	-		**K**	**187R97**	**EDRE**	**90L4**		1770	582
	0.57	22400	2519	190000	2.2	-		**KH**	**187R97**	**EDRE**	**90L4**		1710	582
	0.63	20000	2268	190000	2.5	-								
	0.42	30000	3376	150000	1.05	-		**K**	**167R97**	**EDRE**	**90L4**		1200	582
	0.52	24200	2755	150000	1.30	-		**KH**	**167R97**	**EDRE**	**90L4**		1160	582
	0.66	19600	2182	150000	1.60	-								
	0.84	15300	1704	150000	2.1	-		**K**	**167R97**	**EDRE**	**90L4**		1190	582
	1.0	12600	1408	150000	2.5	-		**KH**	**167R97**	**EDRE**	**90L4**		1150	582
	1.1	11600	1296	150000	2.8	-								
	0.86	14900	1659	113600	1.20	-								
	1.0	12100	1365	114600	1.50	-								
	1.2	10800	1229	115000	1.65	-		**K**	**157R97**	**EDRE**	**90L4**		800	582
	1.3	9680	1093	115400	1.85	-		**KF**	**157R97**	**EDRE**	**90L4**		880	582
	1.5	8350	942	115700	2.2	-		**KA**	**157R97**	**EDRE**	**90L4**		760	582
	1.7	7500	854	115900	2.4	-		**KAF**	**157R97**	**EDRE**	**90L4**		820	582
	2.5	4930	567	116300	3.6	-								
	2.8	4380	504	116400	4.1	-								
	2.7	4750	536	82400	2.7	-		**K**	**127R87**	**EDRE**	**90L4**		500	582
	3.4	3740	418	82500	3.5	-		**KF**	**127R87**	**EDRE**	**90L4**		550	582
	3.9	3290	367	82600	3.9	-		**KA**	**127R87**	**EDRE**	**90L4**		475	582
								KAF	**127R87**	**EDRE**	**90L4**		510	582
	1.1	12300	1342	79600	1.05	-								
	1.2	10700	1177	80300	1.20	-	X							
	1.4	9410	1025	80900	1.40	-								
	1.6	8230	899	81400	1.60	-		**K**	**127R77**	**EDRE**	**90L4**		485	582
	1.8	7130	790	81700	1.80	-		**KF**	**127R77**	**EDRE**	**90L4**		530	582
	2.0	6420	704	81900	2.0	-		**KA**	**127R77**	**EDRE**	**90L4**		455	582
	2.3	5540	610	82200	2.4	-		**KAF**	**127R77**	**EDRE**	**90L4**		495	582
	2.6	5000	549	82300	2.6	-								
	3.0	4300	477	82400	3.0	-								
	3.4	3810	418	82500	3.4	-								
	1.8	7280	793	65000	1.10	-								
	2.1	6370	696	65000	1.25	-	X							
	2.3	5580	615	65000	1.45	-	X	**K**	**107R77**	**EDRE**	**90L4**		325	582
	2.7	4730	522	65000	1.70	-		**KF**	**107R77**	**EDRE**	**90L4**		335	582
	3.1	4160	461	65000	1.90	-		**KA**	**107R77**	**EDRE**	**90L4**		295	582
	3.5	3680	408	65000	2.2	-		**KAF**	**107R77**	**EDRE**	**90L4**		320	582
	3.9	3310	364	65000	2.4	-								
	4.5	2900	318	65000	2.8	-								
	3.3	3980	437	40000	1.10	-								
	3.7	3510	382	40000	1.20	-	X							
	4.2	3110	342	40000	1.40	-		**K**	**97R57**	**EDRE**	**90L4**		195	582
	4.7	2830	305	40000	1.50	-		**KF**	**97R57**	**EDRE**	**90L4**		215	582
	5.6	2390	258	40000	1.80	-		**KA**	**97R57**	**EDRE**	**90L4**		175	582
	6.2	2150	232	40000	2.0	-		**KAF**	**97R57**	**EDRE**	**90L4**		200	582
	7.2	1840	199	40000	2.3	-								
	4.9	2700	294	27300	1.00	-								
	5.7	2320	250	27700	1.15	-		**K**	**87R57**	**EDRE**	**90L4**		135	582
	6.0	2190	236	27900	1.25	-		**KF**	**87R57**	**EDRE**	**90L4**		145	582
	7.1	1860	201	28200	1.45	-		**KA**	**87R57**	**EDRE**	**90L4**		120	582
	7.8	1690	183	28300	1.60	-		**KAF**	**87R57**	**EDRE**	**90L4**		135	582

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
1.5	**8.1**	1760	176.05*	40000	2.4	-		**K**	**97**	**EDRE**	**90L4**		170	558
	9.3	1530	153.21*	40000	2.8	-		**KF**	**97**	**EDRE**	**90L4**		190	559
	10	1400	140.28	40000	3.1	-		**KA**	**97**	**EDRE**	**90L4**		150	560
	12	1240	123.93*	40000	3.5	-		**KAF**	**97**	**EDRE**	**90L4**		175	559
	8.2	1740	174.19	28300	1.55	-								
	8.7	1640	164.34*	28400	1.65	-								
	9.7	1470	147.32*	28500	1.85	-		**K**	**87**	**EDRE**	**90L4**		110	553
	11	1270	126.91*	28600	2.1	-		**KF**	**87**	**EDRE**	**90L4**		120	554
	12	1160	115.82	28700	2.3	-		**KA**	**87**	**EDRE**	**90L4**		99	555
	14	1020	102.71*	28800	2.6	-		**KAF**	**87**	**EDRE**	**90L4**		110	554
	17	860	86.34	28900	3.0	-								
	11	1350	135.28	16600	1.15	-								
	11	1280	128.52	17000	1.20	-	X							
	13	1130	113.56	17700	1.35	-								
	15	970	97.05	18400	1.50	-								
	16	890	88.97	18700	1.60	-		**K**	**77**	**EDRE**	**90L4**		75	548
	18	780	78.07	19000	1.75	-		**KF**	**77**	**EDRE**	**90L4**		83	549
	19	740	73.99	19200	1.80	-		**KA**	**77**	**EDRE**	**90L4**		68	550
	22	645	64.75	19400	2.0	-		**KAF**	**77**	**EDRE**	**90L4**		76	549
	25	580	58.34	19500	2.2	-								
	28	510	51.18	19700	2.5	-								
	32	450	45.16	19800	2.8	-								
	36	400	40.04	19900	3.1	-								
	19	765	76.37	10800	1.05	-								
	21	690	68.95	11300	1.15	-	X							
	24	605	60.66	11900	1.30	-								
	25	570	57.28	12000	1.35	-								
	29	485	48.77	12500	1.55	-		**K**	**67**	**EDRE**	**90L4**		50	543
	32	440	44.32	12600	1.65	-		**KF**	**67**	**EDRE**	**90L4**		56	544
	37	380	38.39	12900	1.85	-		**KA**	**67**	**EDRE**	**90L4**		48	545
	40	355	35.62	13000	2.2	-		**KAF**	**67**	**EDRE**	**90L4**		53	544
	47	300	30.22	13000	2.4	-								
	52	270	27.28	13000	2.6	-								
	60	240	24.00	13000	2.8	-								
	25	575	57.42*	7830	1.05	-								
	29	485	48.89	8470	1.25	-								
	32	445	44.43	8680	1.35	-								
	37	385	38.49	8940	1.55	-		**K**	**57**	**EDRE**	**90L4**		44	538
	40	355	35.70	9060	1.70	-		**KF**	**57**	**EDRE**	**90L4**		49	539
	47	300	30.28	9170	2.00	-		**KA**	**57**	**EDRE**	**90L4**		42	540
	52	270	27.34	8990	2.2	-		**KAF**	**57**	**EDRE**	**90L4**		48	539
	59	240	24.05	8750	2.4	-								
	63	225	22.71	8640	2.5	-								
	74	194	19.34	8340	2.8	-								
	36	395	39.61	5970	1.00	-								
	40	350	35.39	6350	1.15	-								
	46	310	31.30	6300	1.30	-								
	49	290	29.32	6260	1.35	-								
	55	255	25.91	6180	1.55	-		**K**	**47**	**EDRE**	**90L4**		39	533
	66	215	21.81	6040	1.85	-		**KF**	**47**	**EDRE**	**90L4**		42	534
	73	196	19.58	5940	2.00	-		**KA**	**47**	**EDRE**	**90L4**		38	535
	85	169	16.86	5780	2.2	-		**KAF**	**47**	**EDRE**	**90L4**		41	534
	90	159	15.86	5720	2.3	-								
	105	137	13.65	5550	2.6	-								
	117	122	12.19	5420	2.8	-								
	122	118	11.77	5320	2.00	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
1.5	**83**	172	17.15	2940	1.05	-								
	93	153	15.31	2940	1.15	-								
	109	131	13.08	2930	1.25	-								
	118	122	12.14	2920	1.30	-								
	136	105	10.49	2880	1.40	-		**K**	**37**		**EDRE**	**90L4**	32	528
	160	89	8.91	2820	1.55	-		**KF**	**37**		**EDRE**	**90L4**	34	529
	180	80	7.96	2770	1.65	-		**KA**	**37**		**EDRE**	**90L4**	32	530
	210	68	6.80	2700	1.90	-		**KAF**	**37**		**EDRE**	**90L4**	33	529
	225	64	6.37	2660	1.95	-								
	267	54	5.36	2570	2.2	-								
	359	40	3.98	2410	2.7	-								
2.2	**0.51**	35900	2818	190000	1.40	-		**K**	**187R97**		**EDRE**	**100M4**	1780	582
								KH	**187R97**		**EDRE**	**100M4**	1710	582
	0.39	48400	3609	190000	1.05	-								
	0.47	41100	3062	190000	1.20	-								
	0.57	33500	2519	190000	1.50	-								
	0.63	30100	2268	190000	1.65	-		**K**	**187R97**		**EDRE**	**100M4**	1780	582
	0.69	27100	2054	190000	1.85	-		**KH**	**187R97**		**EDRE**	**100M4**	1710	582
	0.78	23800	1821	190000	2.1	-								
	0.89	21200	1605	190000	2.4	-								
	0.63	29100	2263	150000	1.10	-		**K**	**167R97**		**EDRE**	**100M4**	1200	582
								KH	**167R97**		**EDRE**	**100M4**	1160	582
	0.65	29300	2182	150000	1.10	-								
	0.84	22800	1704	150000	1.40	-								
	1.0	18800	1408	150000	1.70	-		**K**	**167R97**		**EDRE**	**100M4**	1200	582
	1.1	17300	1296	150000	1.85	-		**KH**	**167R97**		**EDRE**	**100M4**	1160	582
	1.3	14400	1101	150000	2.2	-								
	1.5	12400	944	150000	2.6	-								
	1.2	16300	1229	113000	1.10	-								
	1.3	14500	1093	113800	1.25	-		**K**	**157R97**		**EDRE**	**100M4**	800	582
	1.5	12500	942	114500	1.45	-		**KF**	**157R97**		**EDRE**	**100M4**	880	582
	1.7	11200	854	114900	1.60	-		**KA**	**157R97**		**EDRE**	**100M4**	770	582
	1.9	9760	756	115400	1.85	-		**KAF**	**157R97**		**EDRE**	**100M4**	830	582
	2.7	7110	536	81700	1.85	-								
	3.0	6220	473	82000	2.1	-		**K**	**127R87**		**EDRE**	**100M4**	510	582
	3.4	5610	418	82200	2.3	-		**KF**	**127R87**		**EDRE**	**100M4**	550	582
	3.9	4910	367	82300	2.6	-		**KA**	**127R87**		**EDRE**	**100M4**	480	582
	4.3	4400	330	82400	3.0	-		**KAF**	**127R87**		**EDRE**	**100M4**	520	582
	1.6	12200	899	79600	1.05	-								
	1.8	10600	790	80400	1.20	-	X							
	2.0	9530	704	80900	1.35	-		**K**	**127R77**		**EDRE**	**100M4**	490	582
	2.3	8230	610	81400	1.60	-		**KF**	**127R77**		**EDRE**	**100M4**	530	582
	2.6	7420	549	81600	1.75	-		**KA**	**127R77**		**EDRE**	**100M4**	460	582
	3.0	6410	477	81900	2.0	-		**KAF**	**127R77**		**EDRE**	**100M4**	500	582
	3.4	5650	418	82100	2.3	-								
	2.7	7040	522	65000	1.15	-								
	3.1	6190	461	65000	1.30	-	X							
	3.5	5480	408	65000	1.45	-	X	**K**	**107R77**		**EDRE**	**100M4**	330	582
	3.9	4920	364	65000	1.60	-	X	**KF**	**107R77**		**EDRE**	**100M4**	340	582
	4.5	4300	318	65000	1.85	-		**KA**	**107R77**		**EDRE**	**100M4**	300	582
	5.0	3870	286	65000	2.1	-		**KAF**	**107R77**		**EDRE**	**100M4**	325	582
	5.7	3390	251	65000	2.4	-								
	4.7	4190	305	40000	1.00	-		**K**	**97R57**		**EDRE**	**100M4**	200	582
	5.5	3540	258	40000	1.20	-	X	**KF**	**97R57**		**EDRE**	**100M4**	220	582
	6.1	3180	232	40000	1.35	-		**KA**	**97R57**		**EDRE**	**100M4**	180	582
	7.2	2730	199	40000	1.55	-		**KAF**	**97R57**		**EDRE**	**100M4**	205	582

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
2.2	**8.1**	2590	176.05*	40000	1.65	-							
	9.3	2250	153.21*	40000	1.90	-	**K**	**97**	**EDRE**	**100M4**		175	558
	10	2060	140.28	40000	2.1	-	**KF**	**97**	**EDRE**	**100M4**		195	559
	12	1820	123.93*	40000	2.4	-	**KA**	**97**	**EDRE**	**100M4**		155	560
	14	1540	105.13	40000	2.7	-	**KAF**	**97**	**EDRE**	**100M4**		180	559
	15	1420	96.80	40000	2.9	-							
	9.7	2170	147.32*	27900	1.25	-							
	11	1870	126.91*	28200	1.45	-							
	12	1700	115.82	28300	1.60	-	**K**	**87**	**EDRE**	**100M4**		115	553
	14	1510	102.71*	28500	1.80	-	**KF**	**87**	**EDRE**	**100M4**		125	554
	16	1270	86.34	28600	2.0	-	**KA**	**87**	**EDRE**	**100M4**		105	555
	18	1160	79.34	28700	2.2	-	**KAF**	**87**	**EDRE**	**100M4**		115	554
	20	1030	70.46	28800	2.4	-							
	23	920	63.00*	28800	2.6	-							
	15	1430	97.05	16200	1.05	-							
	16	1310	88.97	16900	1.10	-							
	18	1150	78.07	17700	1.20	-							
	19	1090	73.99	17900	1.25	-							
	22	950	64.75	18500	1.40	-							
	24	860	58.34	18800	1.50	-	**K**	**77**	**EDRE**	**100M4**		80	548
	28	750	51.18	19100	1.70	-	**KF**	**77**	**EDRE**	**100M4**		88	549
	32	665	45.16	19300	1.90	-	**KA**	**77**	**EDRE**	**100M4**		73	550
	36	590	40.04	19500	2.1	-	**KAF**	**77**	**EDRE**	**100M4**		80	549
	40	515	35.20	19700	3.0	-							
	46	455	30.89	19800	3.4	-							
	49	430	29.27	19800	3.6	-							
	56	375	25.62	19900	4.1	-							
	29	715	48.77	11100	1.05	-							
	32	650	44.32	11600	1.15	-							
	37	565	38.39	12100	1.25	-							
	40	525	35.62	12300	1.50	-							
	47	445	30.22	12600	1.65	-							
	52	400	27.28	12800	1.75	-							
	59	350	24.00	13000	1.90	-							
	63	330	22.66	13000	2.00	-	**K**	**67**	**EDRE**	**100M4**		55	543
	74	280	19.30	13000	2.2	-	**KF**	**67**	**EDRE**	**100M4**		61	544
	81	255	17.54	13000	2.4	-	**KA**	**67**	**EDRE**	**100M4**		52	545
	94	220	15.19	13000	2.7	-	**KAF**	**67**	**EDRE**	**100M4**		58	544
	108	195	13.22	13000	3.0	-							
	114	184	12.48	13000	2.00	-							
	134	157	10.63	13000	2.2	-							
	148	142	9.66	13000	2.4	-							
	170	123	8.37	13000	2.7	-							
	196	107	7.28	12700	2.9	-							
	274	77	5.20	11600	3.6	-							
	37	565	38.49	7900	1.05	-							
	40	525	35.70	8220	1.15	-							
	47	445	30.28	8240	1.35	-							
	52	400	27.34	8150	1.50	-							
	59	350	24.05	8020	1.60	-	**K**	**57**	**EDRE**	**100M4**		49	538
	63	330	22.71	7950	1.65	-	**KF**	**57**	**EDRE**	**100M4**		54	539
	74	285	19.34	7750	1.90	-	**KA**	**57**	**EDRE**	**100M4**		47	540
	81	255	17.57	7620	2.0	-	**KAF**	**57**	**EDRE**	**100M4**		53	539
	94	220	15.22	7410	2.2	-							
	108	195	13.25	7200	2.5	-							
	120	176	11.92	6880	2.00	-							
	127	166	11.26	6800	2.1	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
2.2	**55**	380	25.91	5260	1.05	-								
	65	320	21.81	5260	1.25	-								
	73	285	19.58	5240	1.35	-								
	84	245	16.86	5180	1.50	-		**K**	**47**		**EDRE**	**100M4**	43	533
	90	230	15.86	5150	1.55	-		**KF**	**47**		**EDRE**	**100M4**	47	534
	104	200	13.65	5060	1.75	-		**KA**	**47**		**EDRE**	**100M4**	43	535
	117	180	12.19	4980	1.90	-		**KAF**	**47**		**EDRE**	**100M4**	45	534
	121	174	11.77	4880	1.35	-								
	135	156	10.56	4800	1.45	-								
	157	134	9.10	4680	1.60	-								
	160	131	8.91	2440	1.05	-								
	179	117	7.96	2430	1.15	-		**K**	**37**		**EDRE**	**100M4**	37	528
	210	100	6.80	2410	1.30	-		**KF**	**37**		**EDRE**	**100M4**	39	529
	224	94	6.37	2390	1.35	-		**KA**	**37**		**EDRE**	**100M4**	36	530
	266	79	5.36	2350	1.50	-		**KAF**	**37**		**EDRE**	**100M4**	38	529
	358	59	3.98	2240	1.85	-								
3.0	**0.52**	48700	2818	190000	1.05	-		**K**	**187R97**		**EDRE**	**100LC4**	1790	582
								KH	**187R97**		**EDRE**	**100LC4**	1720	582
	0.58	45200	2519	190000	1.10	-								
	0.64	40500	2268	190000	1.25	-								
	0.71	36600	2054	190000	1.35	-								
	0.80	32200	1821	190000	1.55	-		**K**	**187R97**		**EDRE**	**100LC4**	1780	582
	0.91	28600	1605	190000	1.75	-		**KH**	**187R97**		**EDRE**	**100LC4**	1720	582
	1.0	24400	1395	190000	2.0	-								
	1.2	21200	1196	190000	2.4	-								
	0.85	30600	1704	150000	1.05	-								
	1.0	25300	1408	150000	1.25	-								
	1.1	23300	1296	150000	1.35	-								
	1.3	19500	1101	150000	1.65	-		**K**	**167R97**		**EDRE**	**100LC4**	1200	582
	1.5	16800	944	150000	1.90	-		**KH**	**167R97**		**EDRE**	**100LC4**	1160	582
	1.7	14700	843	150000	2.2	-								
	1.9	13300	757	150000	2.4	-								
	1.5	16800	942	112700	1.05	-								
	1.7	15200	854	113500	1.20	-		**K**	**157R97**		**EDRE**	**100LC4**	810	582
	1.9	13200	756	114300	1.35	-		**KF**	**157R97**		**EDRE**	**100LC4**	890	582
	2.6	10000	567	115300	1.80	-		**KA**	**157R97**		**EDRE**	**100LC4**	770	582
	2.9	8930	504	115600	2.0	-		**KAF**	**157R97**		**EDRE**	**100LC4**	830	582
	2.7	9580	536	80900	1.35	-								
	3.1	8410	473	81300	1.55	-		**K**	**127R87**		**EDRE**	**100LC4**	510	582
	3.5	7560	418	81600	1.70	-		**KF**	**127R87**		**EDRE**	**100LC4**	560	582
	4.0	6610	367	81900	1.95	-		**KA**	**127R87**		**EDRE**	**100LC4**	485	582
	4.4	5930	330	82100	2.2	-		**KAF**	**127R87**		**EDRE**	**100LC4**	520	582
	5.1	5090	287	82300	2.6	-								
	2.1	12700	704	79300	1.00	-								
	2.4	11000	610	80200	1.20	-		**K**	**127R77**		**EDRE**	**100LC4**	495	582
	2.6	9960	549	80700	1.30	-		**KF**	**127R77**		**EDRE**	**100LC4**	540	582
	3.0	8620	477	81200	1.50	-		**KA**	**127R77**		**EDRE**	**100LC4**	465	582
	3.5	7590	418	81600	1.70	-		**KAF**	**127R77**		**EDRE**	**100LC4**	500	582
	3.6	7360	408	65000	1.10	-								
	4.0	6600	364	65000	1.20	-	X							
	4.6	5770	318	65000	1.40	-								
	5.1	5190	286	65000	1.55	-		**K**	**107R77**		**EDRE**	**100LC4**	335	582
	5.8	4550	251	65000	1.75	-		**KF**	**107R77**		**EDRE**	**100LC4**	345	582
	6.6	4000	222	65000	2.0	-		**KA**	**107R77**		**EDRE**	**100LC4**	305	582
	7.4	3540	196	65000	2.2	-		**KAF**	**107R77**		**EDRE**	**100LC4**	330	582
	8.4	3170	174	65000	2.3	-								
	9.4	2800	154	65000	2.6	-								
	10	2540	140	65000	2.8	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
3.0	**6.3**	4270	232	40000	1.00	-		**K**	**97R57**	**EDRE**	**100LC4**	205	582
	7.3	3660	199	40000	1.15	-		**KF**	**97R57**	**EDRE**	**100LC4**	225	582
								KA	**97R57**	**EDRE**	**100LC4**	185	582
								KAF	**97R57**	**EDRE**	**100LC4**	210	582
	10	2820	143.47*	65000	2.8	-		**K**	**107**	**EDRE**	**100LC4**	295	563
	12	2390	121.46	65000	3.4	-		**KF**	**107**	**EDRE**	**100LC4**	310	564
	13	2210	112.41*	65000	3.6	-		**KA**	**107**	**EDRE**	**100LC4**	270	565
	14	1980	100.75	65000	3.8	-		**KAF**	**107**	**EDRE**	**100LC4**	290	564
	8.3	3460	176.05*	40000	1.25	-							
	9.5	3010	153.21*	40000	1.45	-							
	10	2760	140.28	40000	1.55	-							
	12	2440	123.93*	40000	1.75	-							
	14	2070	105.13	40000	2.0	-		**K**	**97**	**EDRE**	**100LC4**	180	558
	15	1900	96.80	40000	2.2	-		**KF**	**97**	**EDRE**	**100LC4**	200	559
	17	1700	86.52	40000	2.3	-		**KA**	**97**	**EDRE**	**100LC4**	160	560
	19	1530	77.89*	40000	2.5	-		**KAF**	**97**	**EDRE**	**100LC4**	185	559
	21	1380	70.54	40000	2.8	-							
	23	1230	62.55	40000	3.1	-							
	26	1110	56.55	40000	3.4	-							
	11	2490	126.91*	27500	1.10	-							
	13	2280	115.82	27800	1.20	-							
	14	2020	102.71*	28000	1.35	-							
	17	1690	86.34	28300	1.50	-							
	18	1560	79.34	28400	1.60	-		**K**	**87**	**EDRE**	**100LC4**	120	553
	21	1380	70.46	28600	1.80	-		**KF**	**87**	**EDRE**	**100LC4**	130	554
	23	1240	63.00*	28600	2.00	-		**KA**	**87**	**EDRE**	**100LC4**	110	555
	26	1110	56.64	28700	2.2	-		**KAF**	**87**	**EDRE**	**100LC4**	120	554
	30	960	49.16	28800	2.4	-							
	33	860	44.02	28800	2.7	-							
	40	715	36.52*	28200	3.1	-							
	22	1270	64.75	17100	1.05	-							
	25	1140	58.34	17700	1.15	-							
	28	1000	51.18	18300	1.25	-		**K**	**77**	**EDRE**	**100LC4**	85	548
	32	880	45.16	18700	1.40	-		**KF**	**77**	**EDRE**	**100LC4**	93	549
	36	785	40.04	19000	1.55	-		**KA**	**77**	**EDRE**	**100LC4**	78	550
	41	690	35.20	19300	2.2	-		**KAF**	**77**	**EDRE**	**100LC4**	85	549
	47	605	30.89	19500	2.6	-							
	41	700	35.62	11300	1.10	-							
	48	590	30.22	11900	1.25	-							
	53	535	27.28	12200	1.30	-							
	61	470	24.00	12500	1.45	-							
	64	445	22.66	12600	1.50	-		**K**	**67**	**EDRE**	**100LC4**	60	543
	75	375	19.30	12900	1.65	-		**KF**	**67**	**EDRE**	**100LC4**	66	544
	83	345	17.54	13000	1.80	-		**KA**	**67**	**EDRE**	**100LC4**	57	545
	96	295	15.19	13000	2.0	-		**KAF**	**67**	**EDRE**	**100LC4**	63	544
	110	260	13.22	13000	2.2	-							
	117	245	12.48	13000	1.50	-							
	137	205	10.63	13000	1.65	-							
	151	190	9.66	13000	1.80	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
3.0	**48**	595	30.28	7190	1.00	-								
	53	535	27.34	7190	1.10	-								
	60	470	24.05	7170	1.20	-								
	64	445	22.71	7150	1.25	-								
	75	380	19.34	7060	1.40	-								
	83	345	17.57	6980	1.50	-								
	96	295	15.22	6860	1.65	-	**K**	**57**		**EDRE**	**100LC4**		54	538
	110	260	13.25	6710	1.85	-	**KF**	**57**		**EDRE**	**100LC4**		59	539
	122	230	11.92	6380	1.50	-	**KA**	**57**		**EDRE**	**100LC4**		52	540
	129	220	11.26	6330	1.55	-	**KAF**	**57**		**EDRE**	**100LC4**		58	539
	152	189	9.59	6160	1.75	-								
	167	172	8.71	6050	1.90	-								
	193	149	7.55	5870	2.1	-								
	222	129	6.57	5700	2.3	-								
	310	92	4.69	5270	2.9	-								
	74	385	19.58	4450	1.00	-								
	86	330	16.86	4500	1.15	-								
	92	310	15.86	4510	1.15	-								
	107	265	13.65	4500	1.30	-								
	119	240	12.19	4480	1.40	-								
	124	230	11.77	4360	1.00	-	**K**	**47**		**EDRE**	**100LC4**		48	533
	138	205	10.56	4340	1.10	-	**KF**	**47**		**EDRE**	**100LC4**		52	534
	160	179	9.10	4280	1.20	-	**KA**	**47**		**EDRE**	**100LC4**		48	535
	170	168	8.56	4250	1.30	-	**KAF**	**47**		**EDRE**	**100LC4**		50	534
	198	145	7.36	4160	1.40	-								
	221	130	6.58	4090	1.55	-								
	250	114	5.81	4000	1.70	-								
	314	91	4.64	3830	1.95	-								
	229	125	6.37	2090	1.00	-	**K**	**37**		**EDRE**	**100LC4**		42	528
	271	106	5.36	2090	1.15	-	**KF**	**37**		**EDRE**	**100LC4**		44	529
	366	78	3.98	2040	1.40	-	**KA**	**37**		**EDRE**	**100LC4**		41	530
							KAF	**37**		**EDRE**	**100LC4**		43	529
4.0	**1.8**	19500	835	190000	2.6	-	**K**	**187R107**		**EDRE**	**132S4**		1840	582
	2.8	12200	520	190000	4.1	-	**KH**	**187R107**		**EDRE**	**132S4**		1780	582
	0.71	49000	2054	190000	1.00	-								
	0.80	43300	1821	190000	1.15	-								
	0.91	38300	1605	190000	1.30	-								
	1.0	32800	1395	190000	1.50	-	**K**	**187R97**		**EDRE**	**132S4**		1800	582
	1.2	28400	1196	190000	1.75	-	**KH**	**187R97**		**EDRE**	**132S4**		1730	582
	1.4	24800	1046	190000	2.0	-								
	1.5	22400	945	190000	2.2	-								
	1.1	31100	1296	150000	1.05	-								
	1.3	26100	1101	150000	1.20	-								
	1.6	22500	944	150000	1.40	-	**K**	**167R97**		**EDRE**	**132S4**		1220	582
	1.7	19800	843	150000	1.60	-	**KH**	**167R97**		**EDRE**	**132S4**		1180	582
	1.9	17900	757	150000	1.80	-								
	2.3	15000	632	150000	2.1	-								
	1.9	17800	756	112300	1.00	-	**K**	**157R97**		**EDRE**	**132S4**		820	582
	2.6	13400	567	114200	1.35	-	**KF**	**157R97**		**EDRE**	**132S4**		900	582
	2.9	11900	504	114700	1.50	-	**KA**	**157R97**		**EDRE**	**132S4**		780	582
	3.4	10200	434	115200	1.75	-	**KAF**	**157R97**		**EDRE**	**132S4**		840	582
	2.7	12800	536	79300	1.00	-								
	3.1	11200	473	80100	1.15	-								
	3.5	10100	418	80600	1.30	-	**K**	**127R87**		**EDRE**	**132S4**		530	582
	4.0	8830	367	81200	1.45	-	**KF**	**127R87**		**EDRE**	**132S4**		570	582
	4.4	7930	330	81500	1.65	-	**KA**	**127R87**		**EDRE**	**132S4**		500	582
	5.1	6820	287	81800	1.90	-	**KAF**	**127R87**		**EDRE**	**132S4**		540	582
	5.8	6030	253	82100	2.2	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
4.0	**3.1**	11500	477	80000	1.15	-		**K**	**127R77**	**EDRE**	**132S4**	510	582
	3.5	10100	418	80600	1.30	-		**KF**	**127R77**	**EDRE**	**132S4**	550	582
								KA	**127R77**	**EDRE**	**132S4**	480	582
								KAF	**127R77**	**EDRE**	**132S4**	520	582
	4.6	7690	318	65000	1.05	-							
	5.1	6920	286	65000	1.15	-							
	5.8	6060	251	65000	1.30	-		**K**	**107R77**	**EDRE**	**132S4**	345	582
	6.6	5340	222	65000	1.50	-		**KF**	**107R77**	**EDRE**	**132S4**	360	582
	7.4	4730	196	65000	1.70	-		**KA**	**107R77**	**EDRE**	**132S4**	320	582
	8.4	4230	174	65000	1.70	-		**KAF**	**107R77**	**EDRE**	**132S4**	345	582
	9.5	3740	154	65000	1.90	-							
	10	3400	140	65000	2.1	-							
	10	3750	143.47*	65000	2.1	-							
	12	3170	121.46	65000	2.5	-							
	13	2940	112.41*	65000	2.7	-		**K**	**107**	**EDRE**	**132S4**	305	563
	14	2630	100.75	65000	2.9	-		**KF**	**107**	**EDRE**	**132S4**	320	564
	16	2370	90.96*	65000	3.1	-		**KA**	**107**	**EDRE**	**132S4**	280	565
	18	2160	82.61	65000	3.4	-		**KAF**	**107**	**EDRE**	**132S4**	305	564
	20	1910	73.30	65000	3.8	-							
	9.5	4000	153.21*	40000	1.05	-							
	10	3670	140.28	40000	1.15	-							
	12	3240	123.93*	40000	1.35	-		**K**	**97**	**EDRE**	**132S4**	195	558
	14	2750	105.13	40000	1.55	-		**KF**	**97**	**EDRE**	**132S4**	215	559
	15	2530	96.80	40000	1.60	-		**KA**	**97**	**EDRE**	**132S4**	175	560
	17	2260	86.52	40000	1.75	-		**KAF**	**97**	**EDRE**	**132S4**	200	559
	19	2030	77.89*	40000	1.90	-							
	21	1840	70.54	40000	2.1	-							
	14	2680	102.71*	27300	1.00	-							
	17	2250	86.34	27800	1.15	-							
	18	2070	79.34	28000	1.20	-							
	21	1840	70.46	28200	1.35	-		**K**	**87**	**EDRE**	**132S4**	135	553
	23	1640	63.00*	28400	1.50	-		**KF**	**87**	**EDRE**	**132S4**	145	554
	26	1480	56.64	28500	1.65	-		**KA**	**87**	**EDRE**	**132S4**	120	555
	30	1280	49.16	28600	1.85	-		**KAF**	**87**	**EDRE**	**132S4**	135	554
	33	1150	44.02	28200	2.0	-							
	40	950	36.52*	27200	2.4	-							
	32	1180	45.16	17500	1.05	-							
	36	1040	40.04	18100	1.20	-							
	38	1000	38.39	18300	1.50	-							
	41	920	35.20	18600	1.70	-		**K**	**77**	**EDRE**	**132S4**	98	548
	47	800	30.89	19000	1.90	-		**KF**	**77**	**EDRE**	**132S4**	105	549
	50	765	29.27	19100	2.0	-		**KA**	**77**	**EDRE**	**132S4**	91	550
	57	670	25.62	19300	2.3	-		**KAF**	**77**	**EDRE**	**132S4**	99	549
	63	600	23.08	19500	2.5	-							
	72	525	20.25	19600	2.7	-							
	54	710	27.28	11200	1.00	-							
	61	625	24.00	11700	1.10	-							
	64	590	22.66	11900	1.10	-							
	76	500	19.30	12400	1.25	-							
	83	455	17.54	12600	1.35	-							
	96	395	15.19	12800	1.50	-		**K**	**67**	**EDRE**	**132S4**	115	543
	110	345	13.22	13000	1.65	-		**KF**	**67**	**EDRE**	**132S4**	120	544
	117	325	12.48	13000	1.10	-		**KA**	**67**	**EDRE**	**132S4**	110	545
	137	275	10.63	13000	1.25	-		**KAF**	**67**	**EDRE**	**132S4**	115	544
	151	250	9.66	12800	1.35	-							
	175	215	8.37	12400	1.50	-							
	201	190	7.28	12100	1.65	-							
	281	136	5.20	11100	2.1	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
4.0	**76**	505	19.34	6230	1.05	-								
	83	455	17.57	6230	1.15	-								
	96	395	15.22	6200	1.25	-								
	110	345	13.25	6140	1.40	-								
	122	310	11.92	5800	1.10	-		**K**	**57**		**EDRE**	**132S4**	110	538
	130	290	11.26	5780	1.15	-		**KF**	**57**		**EDRE**	**132S4**	110	539
	152	250	9.59	5690	1.30	-		**KA**	**57**		**EDRE**	**132S4**	105	540
	168	225	8.71	5620	1.45	-		**KAF**	**57**		**EDRE**	**132S4**	110	539
	193	197	7.55	5500	1.60	-								
	222	172	6.57	5380	1.75	-								
	311	123	4.69	5040	2.2	-								
5.5	**1.0**	45800	1395	190000	1.10	-								
	1.2	39500	1196	190000	1.25	-								
	1.4	34500	1046	190000	1.45	-		**K**	**187R97**		**EDRE**	**132M4**	1810	582
	1.5	31100	945	190000	1.60	-		**KH**	**187R97**		**EDRE**	**132M4**	1740	582
	2.0	24300	738	190000	2.0	-								
	2.3	20400	621	190000	2.4	-								
	1.5	31200	944	150000	1.00	-								
	1.7	27700	843	150000	1.15	-								
	1.9	24900	757	150000	1.30	-								
	2.3	20800	632	150000	1.55	-		**K**	**167R97**		**EDRE**	**132M4**	1230	582
	2.6	18300	561	150000	1.75	-		**KH**	**167R97**		**EDRE**	**132M4**	1190	582
	3.0	15800	481	150000	2.0	-								
	3.4	13800	423	150000	2.3	-								
	2.9	16600	504	112800	1.10	-		**K**	**157R97**		**EDRE**	**132M4**	830	582
	3.4	14200	434	113900	1.25	-		**KF**	**157R97**		**EDRE**	**132M4**	910	582
	3.8	12300	379	114600	1.45	-		**KA**	**157R97**		**EDRE**	**132M4**	800	582
	4.4	10900	333	115000	1.65	-		**KAF**	**157R97**		**EDRE**	**132M4**	860	582
	4.0	12200	367	79600	1.05	-								
	4.4	10900	330	80200	1.20	-								
	5.1	9480	287	80900	1.35	-		**K**	**127R87**		**EDRE**	**132M4**	540	582
	5.7	8380	253	81300	1.55	-		**KF**	**127R87**		**EDRE**	**132M4**	580	582
	6.8	7040	213	81800	1.85	-		**KA**	**127R87**		**EDRE**	**132M4**	510	582
	7.3	6710	200	81900	1.80	-		**KAF**	**127R87**		**EDRE**	**132M4**	550	582
	8.8	5550	166	82200	2.2	-								
	9.9	4900	147	82300	2.4	-								
	6.6	7400	222	65000	1.10	-								
	7.4	6550	196	65000	1.20	-	X	**K**	**107R77**		**EDRE**	**132M4**	360	582
	8.4	5860	174	65000	1.25	-		**KF**	**107R77**		**EDRE**	**132M4**	370	582
	9.4	5190	154	65000	1.40	-		**KA**	**107R77**		**EDRE**	**132M4**	330	582
	10	4710	140	65000	1.55	-		**KAF**	**107R77**		**EDRE**	**132M4**	355	582
	11	4910	136.14	82300	2.6	-		**K**	**127**		**EDRE**	**132M4**	480	568
	12	4420	122.48	82400	2.9	-		**KF**	**127**		**EDRE**	**132M4**	520	569
	13	3970	110.18	82500	3.3	-		**KA**	**127**		**EDRE**	**132M4**	450	570
	16	3240	89.89	82600	4.0	-		**KAF**	**127**		**EDRE**	**132M4**	490	569
	10	5170	143.47*	65000	1.55	-								
	12	4380	121.46	65000	1.80	-		**K**	**107**		**EDRE**	**132M4**	320	563
	13	4050	112.41*	65000	1.95	-		**KF**	**107**		**EDRE**	**132M4**	330	564
	14	3630	100.75	65000	2.1	-		**KA**	**107**		**EDRE**	**132M4**	290	565
	16	3280	90.96*	65000	2.3	-		**KAF**	**107**		**EDRE**	**132M4**	315	564
	18	2980	82.61	65000	2.5	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
5.5	**14**	3790	105.13	40000	1.10	-							
	15	3490	96.80	40000	1.15	-							
	17	3120	86.52	40000	1.25	-	**K**	**97**	**EDRE**	**132M4**	205	558
	19	2810	77.89*	40000	1.40	-	**KF**	**97**	**EDRE**	**132M4**	225	559
	21	2540	70.54	40000	1.50	-	**KA**	**97**	**EDRE**	**132M4**	185	560
	23	2250	62.55	40000	1.70	-	**KAF**	**97**	**EDRE**	**132M4**	210	559
	26	2040	56.55	39600	1.85	-						
	30	1730	47.93*	38400	2.1	-						
	23	2270	63.00*	27400	1.10	-						
	26	2040	56.64	27200	1.20	-						
	30	1770	49.16	26800	1.35	-	**K**	**87**	**EDRE**	**132M4**	145	553
	33	1580	44.02	26500	1.45	-	**KF**	**87**	**EDRE**	**132M4**	155	554
	40	1310	36.52*	25800	1.70	-	**KA**	**87**	**EDRE**	**132M4**	135	555
	46	1130	31.39	25100	2.3	-	**KAF**	**87**	**EDRE**	**132M4**	150	554
	52	1000	27.88	24600	2.5	-						
	47	1110	30.89	17800	1.40	-						
	50	1050	29.27	18100	1.45	-						
	57	920	25.62	18600	1.65	-						
	63	830	23.08	18900	1.80	-	**K**	**77**	**EDRE**	**132M4**	110	548
	72	730	20.25	19200	1.95	-	**KF**	**77**	**EDRE**	**132M4**	120	549
	81	640	17.87	19400	2.1	-	**KA**	**77**	**EDRE**	**132M4**	105	550
	92	570	15.84	19100	2.4	-	**KAF**	**77**	**EDRE**	**132M4**	110	549
	108	485	13.52	18500	2.7	-						
	118	445	12.36	17900	1.80	-						
	134	390	10.84	17400	2.0	-						
	96	545	15.19	12200	1.10	-						
	110	475	13.22	12500	1.20	-	**K**	**67**	**EDRE**	**132M4**	125	543
	174	300	8.37	11900	1.10	-	**KF**	**67**	**EDRE**	**132M4**	130	544
	200	260	7.28	11600	1.20	-	**KA**	**67**	**EDRE**	**132M4**	125	545
	280	188	5.20	10800	1.50	-	**KAF**	**67**	**EDRE**	**132M4**	130	544
7.5	**1.8**	37300	835	190000	1.35	-						
	2.0	32400	729	190000	1.55	-	**K**	**187R107**	**EDRE**	**160S4**	1870	582
	2.4	27600	622	190000	1.80	-	**KH**	**187R107**	**EDRE**	**160S4**	1810	582
	1.4	47200	1046	190000	1.05	-						
	1.5	42600	945	190000	1.15	-						
	2.0	33200	738	190000	1.50	-	**K**	**187R97**	**EDRE**	**160S4**	1820	582
	2.4	27900	621	190000	1.80	-	**KH**	**187R97**	**EDRE**	**160S4**	1760	582
	2.8	23600	527	190000	2.1	-						
	2.3	28500	632	150000	1.10	-						
	2.6	25100	561	150000	1.25	-						
	3.0	21700	481	150000	1.45	-	**K**	**167R97**	**EDRE**	**160S4**	1240	582
	3.4	18900	423	150000	1.70	-	**KH**	**167R97**	**EDRE**	**160S4**	1200	582
	4.0	16500	369	150000	1.95	-						
	3.8	16900	379	112700	1.05	-	**K**	**157R97**	**EDRE**	**160S4**	850	582
	4.4	14900	333	113600	1.20	-	**KF**	**157R97**	**EDRE**	**160S4**	930	582
	5.0	13000	291	114300	1.40	-	**KA**	**157R97**	**EDRE**	**160S4**	810	582
							KAF	**157R97**	**EDRE**	**160S4**	870	582
	5.1	12900	287	79200	1.00	-						
	5.8	11400	253	80000	1.15	-	**K**	**127R87**	**EDRE**	**160S4**	560	582
	6.8	9620	213	80800	1.35	-	**KF**	**127R87**	**EDRE**	**160S4**	600	582
	7.3	9160	200	81000	1.30	-	**KA**	**127R87**	**EDRE**	**160S4**	530	582
	8.8	7580	166	81600	1.60	-	**KAF**	**127R87**	**EDRE**	**160S4**	560	582
	10.0	6690	147	81900	1.80	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
7.5	**10.0**	7160	146.07	81700	1.80	-							
	11	6670	136.14	81900	1.95	-							
	12	6000	122.48	82100	2.2	-	**K**	**127**	**EDRE**	**160S4**	490	568
	13	5400	110.18	82200	2.4	-	**KF**	**127**	**EDRE**	**160S4**	530	569
	16	4400	89.89	82400	3.0	-	**KA**	**127**	**EDRE**	**160S4**	460	570
	18	4020	81.98	82500	3.2	-	**KAF**	**127**	**EDRE**	**160S4**	500	569
	21	3480	70.95*	82600	3.7	-						
	10	7030	143.47*	65000	1.15	-						
	12	5950	121.46	65000	1.35	-						
	13	5510	112.41*	65000	1.45	-						
	14	4940	100.75	65000	1.55	-						
	16	4460	90.96*	64000	1.65	-	**K**	**107**	**EDRE**	**160S4**	335	563
	18	4050	82.61	63000	1.80	-	**KF**	**107**	**EDRE**	**160S4**	350	564
	20	3590	73.30	61700	2.0	-	**KA**	**107**	**EDRE**	**160S4**	310	565
	22	3260	66.52*	60600	2.2	-	**KAF**	**107**	**EDRE**	**160S4**	330	564
	26	2800	57.17*	58800	2.5	-						
	29	2440	49.90	57200	2.8	-						
	34	2070	42.33*	55200	3.3	-						
	39	1810	37.00*	53500	3.7	-						
	19	3820	77.89*	38100	1.00	-						
	21	3460	70.54	37900	1.10	-						
	23	3060	62.55	37400	1.25	-	**K**	**97**	**EDRE**	**160S4**	220	558
	26	2770	56.55	37000	1.35	-	**KF**	**97**	**EDRE**	**160S4**	240	559
	30	2350	47.93*	36200	1.55	-	**KA**	**97**	**EDRE**	**160S4**	205	560
	35	2050	41.87	35500	1.75	-	**KAF**	**97**	**EDRE**	**160S4**	230	559
	38	1870	38.30	35000	2.3	-						
	43	1670	34.23	34300	2.6	-						
	33	2150	44.02	24100	1.10	-						
	40	1790	36.52*	23800	1.25	-						
	47	1530	31.39	23500	1.70	-						
	52	1360	27.88	23100	1.85	-	**K**	**87**	**EDRE**	**160S4**	160	553
	59	1220	24.92	22800	2.0	-	**KF**	**87**	**EDRE**	**160S4**	170	554
	65	1090	22.41	22400	2.1	-	**KA**	**87**	**EDRE**	**160S4**	150	555
	75	950	19.45	21800	2.4	-	**KAF**	**87**	**EDRE**	**160S4**	165	554
	84	850	17.42	21400	2.6	-						
	91	780	16.00	20500	1.90	-						
	101	705	14.45	20600	3.0	-						
	47	1510	30.89	15600	1.00	-						
	50	1430	29.27	16100	1.10	-						
	57	1250	25.62	17200	1.25	-						
	63	1130	23.08	17800	1.30	-						
	72	990	20.25	18300	1.45	-						
	82	870	17.87	18500	1.55	-	**K**	**77**	**EDRE**	**160S4**	125	548
	92	775	15.84	18200	1.75	-	**KF**	**77**	**EDRE**	**160S4**	135	549
	108	660	13.52	17700	2.00	-	**KA**	**77**	**EDRE**	**160S4**	120	550
	118	605	12.36	17000	1.35	-	**KAF**	**77**	**EDRE**	**160S4**	125	549
	135	530	10.84	16600	1.50	-						
	153	465	9.56	16200	1.60	-						
	172	415	8.48	15800	1.80	-						
	202	355	7.24	15300	2.00	-						
9.2	**1.8**	45700	835	190000	1.10	-						
	2.0	39700	729	190000	1.25	-						
	2.4	33900	622	190000	1.45	-	**K**	**187R107**	**EDRE**	**160M4**	1880	582
	2.8	28700	520	190000	1.75	-	**KH**	**187R107**	**EDRE**	**160M4**	1810	582
	3.2	25000	454	190000	2.0	-						
	2.0	40600	738	190000	1.25	-						
	2.4	34100	621	190000	1.45	-	**K**	**187R97**	**EDRE**	**160M4**	1830	582
	2.8	28900	527	190000	1.75	-	**KH**	**187R97**	**EDRE**	**160M4**	1770	582

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
9.2	**4.6**	17500	318	150000	1.80	-							
	5.3	15200	278	150000	2.1	-							
	6.0	13200	244	150000	2.4	-		**K**	**167R107**	**EDRE**	**160M4**	1300	582
	6.9	11500	213	150000	2.8	-		**KH**	**167R107**	**EDRE**	**160M4**	1260	582
	7.1	11200	206	150000	2.8	-							
	2.6	30700	561	150000	1.05	-							
	3.1	26500	481	150000	1.20	-		**K**	**167R97**	**EDRE**	**160M4**	1250	582
	3.5	23100	423	150000	1.40	-		**KH**	**167R97**	**EDRE**	**160M4**	1210	582
	4.0	20200	369	150000	1.60	-							
	4.5	17400	325	112500	1.05	-		**K**	**157R107**	**EDRE**	**160M4**	910	582
	4.9	16200	299	113000	1.10	-		**KF**	**157R107**	**EDRE**	**160M4**	980	582
	5.8	13700	253	114100	1.30	-		**KA**	**157R107**	**EDRE**	**160M4**	870	582
	6.4	12300	230	114600	1.45	-		**KAF**	**157R107**	**EDRE**	**160M4**	930	582
	5.0	15900	291	113200	1.15	-		**K**	**157R97**	**EDRE**	**160M4**	860	582
								KF	**157R97**	**EDRE**	**160M4**	940	582
								KA	**157R97**	**EDRE**	**160M4**	820	582
								KAF	**157R97**	**EDRE**	**160M4**	880	582
	6.9	11700	213	79900	1.10	-		**K**	**127R87**	**EDRE**	**160M4**	560	582
	7.3	11100	200	80100	1.05	-		**KF**	**127R87**	**EDRE**	**160M4**	610	582
	8.8	9260	166	81000	1.30	-		**KA**	**127R87**	**EDRE**	**160M4**	540	582
	10	8170	147	81400	1.45	-		**KAF**	**127R87**	**EDRE**	**160M4**	570	582
	11	8130	136.14	81400	1.60	-							
	12	7320	122.48	81700	1.80	-		**K**	**127**	**EDRE**	**160M4**	500	568
	13	6580	110.18	81900	1.95	-		**KF**	**127**	**EDRE**	**160M4**	540	569
	16	5370	89.89	82200	2.4	-		**KA**	**127**	**EDRE**	**160M4**	470	570
	18	4890	81.98	82300	2.6	-		**KAF**	**127**	**EDRE**	**160M4**	510	569
	13	6710	112.41*	62300	1.20	-	X						
	15	6020	100.75	61700	1.25	-							
	16	5430	90.96*	61000	1.35	-							
	18	4930	82.61	60300	1.50	-		**K**	**107**	**EDRE**	**160M4**	345	563
	20	4380	73.30	59300	1.65	-		**KF**	**107**	**EDRE**	**160M4**	355	564
	22	3970	66.52*	58400	1.80	-		**KA**	**107**	**EDRE**	**160M4**	315	565
	26	3410	57.17*	56900	2.1	-		**KAF**	**107**	**EDRE**	**160M4**	340	564
	29	2980	49.90	55500	2.3	-							
	35	2520	42.33*	53700	2.7	-							
	24	3730	62.55	35000	1.00	-							
	26	3370	56.55	34800	1.10	-							
	31	2860	47.93*	34400	1.25	-							
	35	2500	41.87	33900	1.45	-		**K**	**97**	**EDRE**	**160M4**	230	558
	38	2280	38.30	33500	1.90	-		**KF**	**97**	**EDRE**	**160M4**	250	559
	43	2040	34.23	33000	2.1	-		**KA**	**97**	**EDRE**	**160M4**	210	560
	48	1840	30.82	32400	2.3	-		**KAF**	**97**	**EDRE**	**160M4**	235	559
	53	1660	27.91	31900	2.6	-							
	59	1470	24.75	31200	2.9	-							
	40	2180	36.52*	22200	1.05	-							
	47	1870	31.39	22000	1.40	-							
	53	1660	27.88	21900	1.50	-							
	59	1480	24.92	21600	1.65	-							
	66	1330	22.41	21400	1.70	-		**K**	**87**	**EDRE**	**160M4**	170	553
	76	1160	19.45	21000	1.95	-		**KF**	**87**	**EDRE**	**160M4**	180	554
	84	1040	17.42	20600	2.1	-		**KA**	**87**	**EDRE**	**160M4**	160	555
	92	950	16.00	19700	1.60	-		**KAF**	**87**	**EDRE**	**160M4**	170	554
	102	860	14.45	20000	2.4	-							
	117	750	12.56	19500	2.7	-							
	132	665	11.17	18500	2.1	-							
	147	595	10.00	18200	2.3	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
9.2	**64**	1370	23.08	16500	1.10	-								
	73	1200	20.25	17400	1.20	-								
	82	1060	17.87	17600	1.30	-								
	93	940	15.84	17300	1.45	-	**K**	**77**		**EDRE**	**160M4**		135	548
	109	800	13.52	17000	1.65	-	**KF**	**77**		**EDRE**	**160M4**		145	549
	119	735	12.36	16200	1.10	-	**KA**	**77**		**EDRE**	**160M4**		130	550
	136	645	10.84	15900	1.20	-	**KAF**	**77**		**EDRE**	**160M4**		135	549
	154	570	9.56	15600	1.35	-								
	173	505	8.48	15300	1.45	-								
	203	430	7.24	14900	1.65	-								
11.0	**2.0**	47700	729	190000	1.05	-								
	2.4	40600	622	190000	1.25	-								
	2.8	34400	520	190000	1.45	-	**K**	**187R107**		**EDRE**	**180S4**		1910	582
	3.2	30000	454	190000	1.65	-	**KH**	**187R107**		**EDRE**	**180S4**		1850	582
	4.1	23100	355	190000	2.2	-								
	2.0	48700	738	190000	1.05	-								
	2.4	40900	621	190000	1.20	-	**K**	**187R97**		**EDRE**	**180S4**		1870	582
	2.8	34600	527	190000	1.45	-	**KH**	**187R97**		**EDRE**	**180S4**		1800	582
	4.6	21000	318	150000	1.50	-								
	5.3	18300	278	150000	1.75	-								
	6.0	15900	244	150000	2.0	-	**K**	**167R107**		**EDRE**	**180S4**		1330	582
	6.9	13800	213	150000	2.3	-	**KH**	**167R107**		**EDRE**	**180S4**		1290	582
	7.1	13500	206	150000	2.4	-								
	3.1	31700	481	150000	1.00	-								
	3.5	27700	423	150000	1.15	-	**K**	**167R97**		**EDRE**	**180S4**		1280	582
	4.0	24200	369	150000	1.30	-	**KH**	**167R97**		**EDRE**	**180S4**		1250	582
	8.8	11100	166	80200	1.10	-	**K**	**127R87**		**EDRE**	**180S4**		600	582
	10	9790	147	80800	1.25	-	**KF**	**127R87**		**EDRE**	**180S4**		640	582
							KA	**127R87**		**EDRE**	**180S4**		570	582
							KAF	**127R87**		**EDRE**	**180S4**		610	582
	8.9	11700	164.50	150000	2.7	-	**K**	**167**		**EDRE**	**180S4**		1160	578
	11	9640	134.99	150000	3.3	-	**KH**	**167**		**EDRE**	**180S4**		1120	579
	9.8	10700	150.41	115100	1.65	-	**K**	**157**		**EDRE**	**180S4**		760	573
	12	8740	122.39	115600	2.1	-	**KF**	**157**		**EDRE**	**180S4**		840	574
	15	7160	100.22	116000	2.5	-	**KA**	**157**		**EDRE**	**180S4**		730	575
	16	6540	91.65	116100	2.8	-	**KAF**	**157**		**EDRE**	**180S4**		790	574
	11	9720	136.14	80800	1.35	-								
	12	8750	122.48	81200	1.50	-	**K**	**127**		**EDRE**	**180S4**		530	568
	13	7870	110.18	81500	1.65	-	**KF**	**127**		**EDRE**	**180S4**		570	569
	16	6420	89.89	81900	2.0	-	**KA**	**127**		**EDRE**	**180S4**		500	570
	18	5850	81.98	82100	2.2	-	**KAF**	**127**		**EDRE**	**180S4**		540	569
	21	5060	70.95*	82300	2.6	-								
	15	7190	100.75	58200	1.05	-								
	16	6490	90.96*	57900	1.15	-								
	18	5900	82.61	57400	1.25	-								
	20	5230	73.30	56700	1.40	-	**K**	**107**		**EDRE**	**180S4**		380	563
	22	4750	66.52*	56100	1.50	-	**KF**	**107**		**EDRE**	**180S4**		390	564
	26	4080	57.17*	55000	1.70	-	**KA**	**107**		**EDRE**	**180S4**		350	565
	29	3560	49.90	53800	1.95	-	**KAF**	**107**		**EDRE**	**180S4**		375	564
	35	3020	42.33*	52300	2.2	-								
	40	2640	37.00*	51000	2.5	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
11.0	**31**	3420	47.93*	32400	1.05	-							
	35	2990	41.87	32200	1.20	-							
	38	2730	38.30	31900	1.55	-	**K**	**97**	**EDRE**	**180S4**		265	558
	43	2440	34.23	31600	1.75	-	**KF**	**97**	**EDRE**	**180S4**		285	559
	48	2200	30.82	31200	1.95	-	**KA**	**97**	**EDRE**	**180S4**		245	560
	53	1990	27.91	30800	2.2	-	**KAF**	**97**	**EDRE**	**180S4**		270	559
	59	1760	24.75	30200	2.4	-							
	66	1590	22.37	29700	2.7	-							
	47	2240	31.39	20600	1.15	-							
	53	1990	27.88	20500	1.25	-							
	59	1780	24.92	20500	1.35	-							
	66	1600	22.41	20300	1.45	-							
	76	1380	19.45	20000	1.65	-							
	84	1240	17.42	19800	1.75	-	**K**	**87**	**EDRE**	**180S4**		205	553
	92	1140	16.00	18800	1.30	-	**KF**	**87**	**EDRE**	**180S4**		215	554
	102	1030	14.45	19300	2.0	-	**KA**	**87**	**EDRE**	**180S4**		190	555
	117	890	12.56	18900	2.2	-	**KAF**	**87**	**EDRE**	**180S4**		205	554
	132	795	11.17	17900	1.75	-							
	147	710	10.00	17600	1.90	-							
	177	590	8.29	17000	2.2	-							
	204	515	7.21	16600	2.5	-							
15.0	**2.8**	47200	520	190000	1.05	-							
	3.2	41100	454	190000	1.20	-	**K**	**187R107**	**EDRE**	**180M4**		1930	582
	4.1	31800	355	190000	1.55	-	**KH**	**187R107**	**EDRE**	**180M4**		1860	582
	5.6	23600	261	190000	2.1	-							
	4.6	28800	318	150000	1.10	-							
	5.3	25100	278	150000	1.25	-							
	6.0	21800	244	150000	1.45	-							
	6.9	19000	213	150000	1.70	-	**K**	**167R107**	**EDRE**	**180M4**		1350	582
	7.1	18500	206	150000	1.75	-	**KH**	**167R107**	**EDRE**	**180M4**		1310	582
	8.2	16000	180	150000	2.0	-							
	9.2	14400	160	150000	2.2	-							
	7.8	16600	187	112900	1.10	-	**K**	**157R107**	**EDRE**	**180M4**		960	582
	9.4	14100	157	113900	1.30	-	**KF**	**157R107**	**EDRE**	**180M4**		1030	582
	12	11000	122	115000	1.65	-	**KA**	**157R107**	**EDRE**	**180M4**		920	582
	14	9640	107	115400	1.85	-	**KAF**	**157R107**	**EDRE**	**180M4**		980	582
	8.9	16000	164.50	150000	2.0	-	**K**	**167**	**EDRE**	**180M4**		1170	578
	11	13100	134.99	150000	2.4	-	**KH**	**167**	**EDRE**	**180M4**		1140	579
	9.8	14600	150.41	113700	1.25	-							
	12	11900	122.39	114700	1.50	-	**K**	**157**	**EDRE**	**180M4**		780	573
	15	9760	100.22	114100	1.85	-	**KF**	**157**	**EDRE**	**180M4**		860	574
	16	8930	91.65	112300	2.0	-	**KA**	**157**	**EDRE**	**180M4**		740	575
	18	7770	79.75	109500	2.3	-	**KAF**	**157**	**EDRE**	**180M4**		800	574
	12	11900	122.48	79800	1.10	-							
	13	10700	110.18	80400	1.20	-							
	16	8750	89.89	81200	1.50	-	**K**	**127**	**EDRE**	**180M4**		550	568
	18	7980	81.98	81500	1.65	-	**KF**	**127**	**EDRE**	**180M4**		590	569
	21	6910	70.95*	81500	1.90	-	**KA**	**127**	**EDRE**	**180M4**		520	570
	23	6100	62.60	79900	2.1	-	**KAF**	**127**	**EDRE**	**180M4**		560	569
	27	5260	54.07	77900	2.5	-							
	31	4650	47.82	76100	2.8	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
15.0	**20**	7140	73.30	50500	1.00	-								
	22	6480	66.52*	51000	1.10	-								
	26	5570	57.17*	50600	1.25	-								
	29	4860	49.90	50000	1.40	-	**K**	**107**	**EDRE**	**180M4**	395	563		
	35	4120	42.33*	49100	1.65	-	**KF**	**107**	**EDRE**	**180M4**	405	564		
	40	3600	37.00*	48200	1.85	-	**KA**	**107**	**EDRE**	**180M4**	365	565		
	45	3180	32.69	47300	2.3	-	**KAF**	**107**	**EDRE**	**180M4**	390	564		
	47	3040	31.28*	46900	2.1	-								
	51	2820	29.00	46300	2.6	-								
	38	3730	38.30	28500	1.15	-								
	43	3330	34.23	28500	1.30	-								
	48	3000	30.82	28400	1.45	-	**K**	**97**	**EDRE**	**180M4**	280	558		
	53	2710	27.91	28200	1.60	-	**KF**	**97**	**EDRE**	**180M4**	300	559		
	59	2410	24.75	28000	1.80	-	**KA**	**97**	**EDRE**	**180M4**	260	560		
	66	2170	22.37	27700	1.95	-	**KAF**	**97**	**EDRE**	**180M4**	285	559		
	78	1840	18.96	27100	2.3	-								
	89	1610	16.56	26600	2.7	-								
	59	2420	24.92	17800	1.00	-								
	66	2180	22.41	18000	1.05	-								
	76	1890	19.45	18000	1.20	-								
	84	1690	17.42	18000	1.30	-	**K**	**87**	**EDRE**	**180M4**	220	553		
	102	1400	14.45	17800	1.50	-	**KF**	**87**	**EDRE**	**180M4**	230	554		
	117	1220	12.56	17600	1.65	-	**KA**	**87**	**EDRE**	**180M4**	210	555		
	132	1080	11.17	16600	1.30	-	**KAF**	**87**	**EDRE**	**180M4**	220	554		
	147	970	10.00	16400	1.40	-								
	177	800	8.29	16000	1.60	-								
	204	700	7.21	15700	1.80	-								
18.5	**4.2**	39200	355	190000	1.25	-								
	5.6	29100	261	190000	1.70	-	**K**	**187R107**	**EDRE**	**180L4**	1940	582		
	6.7	24600	221	190000	2.0	-	**KH**	**187R107**	**EDRE**	**180L4**	1880	582		
	5.3	31000	278	150000	1.05	-								
	6.0	26900	244	150000	1.20	-								
	6.9	23400	213	150000	1.35	-								
	7.2	22800	206	150000	1.40	-	**K**	**167R107**	**EDRE**	**180L4**	1360	582		
	8.2	19700	180	150000	1.60	-	**KH**	**167R107**	**EDRE**	**180L4**	1320	582		
	9.2	17800	160	150000	1.80	-								
	11	15000	135	150000	2.1	-								
	12	13100	118	150000	2.4	-								
	9.4	17400	157	112500	1.05	-	**K**	**157R107**	**EDRE**	**180L4**	970	582		
	12	13600	122	113800	1.30	-	**KF**	**157R107**	**EDRE**	**180L4**	1050	582		
	14	11800	107	111900	1.50	-	**KA**	**157R107**	**EDRE**	**180L4**	930	582		
							KAF	**157R107**	**EDRE**	**180L4**	990	582		
	8.2	21500	179.86	190000	2.3	-								
	8.9	19700	165.21	190000	2.5	-	**K**	**187**	**EDRE**	**180L4**	1770	580		
	10	17300	144.59	190000	2.9	-	**KH**	**187**	**EDRE**	**180L4**	1700	581		
	11	15500	129.69	190000	3.2	-								
	11	16100	134.99	150000	2.00	-								
	13	13100	109.83	150000	2.4	-	**K**	**167**	**EDRE**	**180L4**	1180	578		
	17	10500	87.86	150000	3.0	-	**KH**	**167**	**EDRE**	**180L4**	1150	579		
	12	14600	122.39	111600	1.25	-								
	15	12000	100.22	109000	1.50	-								
	16	10900	91.65	107700	1.65	-								
	18	9550	79.75	105400	1.90	-	**K**	**157**	**EDRE**	**180L4**	790	573		
	21	8420	70.38	103200	2.1	-	**KF**	**157**	**EDRE**	**180L4**	870	574		
	24	7300	61.02	100600	2.5	-	**KA**	**157**	**EDRE**	**180L4**	750	575		
	27	6500	54.29	98300	2.8	-	**KAF**	**157**	**EDRE**	**180L4**	810	574		
	32	5600	46.79	95400	3.2	-								
	39	4550	38.02	91200	4.0	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
18.5	**16**	10700	89.89	79000	1.20	-								
	18	9810	81.98	78500	1.30	-								
	21	8490	70.95*	77400	1.55	-								
	24	7490	62.60	76300	1.75	-	**K**	**127**	**EDRE**	**180L4**	560	568
	27	6470	54.07	74800	2.0	-	**KF**	**127**	**EDRE**	**180L4**	600	569
	31	5720	47.82	73300	2.3	-	**KA**	**127**	**EDRE**	**180L4**	530	570
	37	4810	40.19	71200	2.7	-	**KAF**	**127**	**EDRE**	**180L4**	570	569
	41	4340	36.25	69800	3.0	-						
	47	3750	31.37	67900	3.5	-						
	53	3310	27.68	66100	3.9	-						
	26	6840	57.17*	45800	1.05	-						
	30	5970	49.90	46600	1.15	-						
	35	5060	42.33*	46200	1.35	-						
	40	4430	37.00*	45700	1.50	-						
	45	3910	32.69	45100	1.85	-	**K**	**107**	**EDRE**	**180L4**	405	563
	47	3740	31.28*	44800	1.75	-	**KF**	**107**	**EDRE**	**180L4**	420	564
	51	3470	29.00	44400	2.1	-	**KA**	**107**	**EDRE**	**180L4**	380	565
	56	3150	26.32	43700	2.3	-	**KAF**	**107**	**EDRE**	**180L4**	400	564
	65	2700	22.62	42700	2.7	-						
	75	2360	19.74	41700	3.0	-						
	88	2000	16.75	40400	3.5	-						
	48	3680	30.82	26000	1.15	-						
	53	3340	27.91	26000	1.30	-						
	60	2960	24.75	26000	1.45	-	**K**	**97**	**EDRE**	**180L4**	290	558
	66	2670	22.37	25900	1.60	-	**KF**	**97**	**EDRE**	**180L4**	310	559
	78	2270	18.96	25600	1.90	-	**KA**	**97**	**EDRE**	**180L4**	275	560
	89	1980	16.56	25300	2.2	-	**KAF**	**97**	**EDRE**	**180L4**	300	559
	106	1650	13.85	24700	2.5	-						
	123	1430	11.99	24200	2.7	-						
	85	2080	17.42	16400	1.05	-						
	102	1730	14.45	16500	1.20	-						
	117	1500	12.56	16400	1.35	-	**K**	**87**	**EDRE**	**180L4**	230	553
	132	1330	11.17	15400	1.05	-	**KF**	**87**	**EDRE**	**180L4**	240	554
	148	1190	10.00	15300	1.15	-	**KA**	**87**	**EDRE**	**180L4**	220	555
	178	990	8.29	15100	1.30	-	**KAF**	**87**	**EDRE**	**180L4**	235	554
	205	860	7.21	14900	1.50	-						
22	**4.2**	46500	355	190000	1.05	-						
	5.7	34600	261	190000	1.45	-						
	6.7	29300	221	190000	1.70	-	**K**	**187R107**	**EDRE**	**200L4**	2040	582
	7.6	25500	193	190000	1.95	-	**KH**	**187R107**	**EDRE**	**200L4**	1980	582
	9.0	21500	163	190000	2.3	-						
	6.1	31900	244	150000	1.00	-						
	6.9	27800	213	150000	1.15	-						
	7.2	27100	206	150000	1.20	-						
	8.2	23500	180	150000	1.35	-	**K**	**167R107**	**EDRE**	**200L4**	1460	582
	9.3	21100	160	150000	1.50	-	**KH**	**167R107**	**EDRE**	**200L4**	1420	582
	11	17900	135	150000	1.80	-						
	13	15600	118	150000	2.0	-						
	12	16100	122	108100	1.10	-	**K**	**157R107**	**EDRE**	**200L4**	1070	582
	14	14100	107	106900	1.25	-	**KF**	**157R107**	**EDRE**	**200L4**	1150	582
							KA	**157R107**	**EDRE**	**200L4**	1030	582
							KAF	**157R107**	**EDRE**	**200L4**	1090	582
	8.2	25500	179.86	190000	1.95	-						
	9.0	23400	165.21	190000	2.1	-	**K**	**187**	**EDRE**	**200L4**	1870	580
	10	20500	144.59	190000	2.4	-	**KH**	**187**	**EDRE**	**200L4**	1800	581
	11	18400	129.69	190000	2.7	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
22	**11**	19100	134.99	150000	1.65	-							
	13	15500	109.83	150000	2.0	-	**K**	**167**	**EDRE**	**200L4**	1290	578
	17	12400	87.86	150000	2.6	-	**KH**	**167**	**EDRE**	**200L4**	1250	579
	19	11000	78.14	150000	2.9	-						
	12	17300	122.39	105500	1.05	-						
	15	14200	100.22	104000	1.25	-						
	16	13000	91.65	103100	1.40	-						
	19	11300	79.75	101400	1.60	-	**K**	**157**	**EDRE**	**200L4**	900	573
	21	9990	70.38	99700	1.80	-	**KF**	**157**	**EDRE**	**200L4**	970	574
	24	8660	61.02	97500	2.1	-	**KA**	**157**	**EDRE**	**200L4**	860	575
	27	7700	54.29	95600	2.3	-	**KAF**	**157**	**EDRE**	**200L4**	920	574
	32	6640	46.79	93000	2.7	-						
	39	5390	38.02	89300	3.3	-						
	16	12700	89.89	73900	1.00	-						
	18	11600	81.98	73800	1.10	-						
	21	10000	70.95*	73400	1.30	-						
	24	8880	62.60	72700	1.45	-						
	27	7670	54.07	71700	1.70	-	**K**	**127**	**EDRE**	**200L4**	660	568
	31	6780	47.82	70600	1.90	-	**KF**	**127**	**EDRE**	**200L4**	700	569
	37	5700	40.19	68900	2.3	-	**KA**	**127**	**EDRE**	**200L4**	630	570
	41	5140	36.25	67700	2.5	-	**KAF**	**127**	**EDRE**	**200L4**	670	569
	47	4450	31.37	66000	2.9	-						
	53	3920	27.68	64500	3.3	-						
	62	3390	23.91	62600	3.8	-						
	70	3000	21.15	61100	4.3	-						
	35	6000	42.33*	42900	1.15	-						
	40	5250	37.00*	43200	1.25	-						
	45	4630	32.69	42900	1.55	-						
	47	4440	31.28*	42700	1.45	-						
	51	4110	29.00	42400	1.75	-						
	56	3730	26.32	42000	1.95	-	**K**	**107**	**EDRE**	**200L4**	510	563
	65	3210	22.62	41200	2.2	-	**KF**	**107**	**EDRE**	**200L4**	520	564
	75	2800	19.74	40300	2.6	-	**KA**	**107**	**EDRE**	**200L4**	480	565
	88	2370	16.75	39200	2.9	-	**KAF**	**107**	**EDRE**	**200L4**	510	564
	101	2070	14.64	38300	3.2	-						
	110	1900	13.43	36700	2.3	-						
	126	1660	11.73	35800	2.6	-						
	149	1410	9.94	34700	2.9	-						
	53	3960	27.91	23900	1.10	-						
	60	3510	24.75	24100	1.20	-						
	66	3170	22.37	24200	1.35	-						
	78	2690	18.96	24100	1.60	-	**K**	**97**	**EDRE**	**200L4**	395	558
	89	2350	16.56	24000	1.85	-	**KF**	**97**	**EDRE**	**200L4**	415	559
	107	1960	13.85	23600	2.1	-	**KA**	**97**	**EDRE**	**200L4**	375	560
	123	1700	11.99	23300	2.3	-	**KAF**	**97**	**EDRE**	**200L4**	400	559
	142	1470	10.41	21800	1.85	-						
	170	1230	8.71	21300	2.1	-						
30	**5.7**	47300	261	190000	1.05	-						
	6.7	40000	221	190000	1.25	-	**K**	**187R107**	**EDRE**	**225S4**	2080	582
	7.6	34900	193	190000	1.45	-	**KH**	**187R107**	**EDRE**	**225S4**	2010	582
	9.0	29500	163	190000	1.70	-						
	9.3	28900	160	150000	1.10	-						
	11	24500	135	150000	1.30	-	**K**	**167R107**	**EDRE**	**225S4**	1500	582
	13	21300	118	150000	1.50	-	**KH**	**167R107**	**EDRE**	**225S4**	1460	582

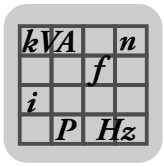
P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
30	**8.2**	34800	179.86	190000	1.45	-							
	9.0	31900	165.21	190000	1.55	-							
	10	27900	144.59	190000	1.80	-							
	11	25100	129.69	190000	2.00	-		**K**	**187**	**EDRE**	**225S4**	1910	580
	13	21700	112.60	190000	2.3	-		**KH**	**187**	**EDRE**	**225S4**	1840	581
	14	19700	102.16	190000	2.5	-							
	17	17000	88.00	190000	2.9	-							
	13	21200	109.83	150000	1.50	-							
	17	17000	87.86	150000	1.90	-							
	19	15100	78.14	150000	2.1	-		**K**	**167**	**EDRE**	**225S4**	1320	578
	22	13100	68.07	150000	2.4	-		**KH**	**167**	**EDRE**	**225S4**	1290	579
	24	11700	60.74	150000	2.7	-							
	16	17700	91.65	92700	1.00	-							
	19	15400	79.75	92400	1.15	-							
	21	13600	70.38	91700	1.30	-		**K**	**157**	**EDRE**	**225S4**	930	573
	24	11800	61.02	90600	1.50	-		**KF**	**157**	**EDRE**	**225S4**	1010	574
	27	10500	54.29	89500	1.70	-		**KA**	**157**	**EDRE**	**225S4**	890	575
	32	9050	46.79	87700	2.00	-		**KAF**	**157**	**EDRE**	**225S4**	950	574
	39	7350	38.02	85000	2.4	-							
	47	6050	31.30	82100	3.0	-							
	24	12100	62.60	64600	1.05	-							
	27	10400	54.07	64700	1.25	-							
	31	9250	47.82	64400	1.40	-		**K**	**127**	**EDRE**	**225S4**	700	568
	37	7770	40.19	63700	1.65	-		**KF**	**127**	**EDRE**	**225S4**	740	569
	41	7010	36.25	63000	1.85	-		**KA**	**127**	**EDRE**	**225S4**	670	570
	47	6070	31.37	62000	2.1	-		**KAF**	**127**	**EDRE**	**225S4**	710	569
	53	5350	27.68	60900	2.4	-							
	62	4620	23.91	59600	2.8	-							
	47	6050	31.28*	36600	1.05	-							
	51	5610	29.00	37200	1.30	-							
	56	5090	26.32	37700	1.40	-							
	65	4370	22.62	37700	1.65	-							
	75	3820	19.74	37300	1.90	-		**K**	**107**	**EDRE**	**225S4**	540	563
	88	3240	16.75	36700	2.1	-		**KF**	**107**	**EDRE**	**225S4**	550	564
	101	2830	14.64	36100	2.4	-		**KA**	**107**	**EDRE**	**225S4**	520	565
	110	2590	13.43	34300	1.65	-		**KAF**	**107**	**EDRE**	**225S4**	540	564
	126	2260	11.73	33700	1.90	-							
	149	1920	9.94	32900	2.1	-							
	170	1680	8.69	32200	2.4	-							
	78	3660	18.96	20700	1.15	-							
	89	3200	16.56	21000	1.35	-		**K**	**97**	**EDRE**	**225S4**	430	558
	107	2680	13.85	21200	1.55	-		**KF**	**97**	**EDRE**	**225S4**	450	559
	123	2320	11.99	21100	1.70	-		**KA**	**97**	**EDRE**	**225S4**	410	560
	142	2010	10.41	19500	1.35	-		**KAF**	**97**	**EDRE**	**225S4**	435	559
	170	1680	8.71	19400	1.55	-							
37	**6.7**	49500	221	190000	1.00	-							
	7.6	43200	193	190000	1.15	-		**K**	**187R107**	**EDRE**	**225M4**	2100	582
	9.0	36400	163	190000	1.35	-		**KH**	**187R107**	**EDRE**	**225M4**	2030	582
	11	30200	135	150000	1.05	-		**K**	**167R107**	**EDRE**	**225M4**	1520	582
	13	26400	118	150000	1.20	-		**KH**	**167R107**	**EDRE**	**225M4**	1480	582
	8.2	42900	179.86	190000	1.15	-							
	9.0	39400	165.21	190000	1.25	-							
	10	34500	144.59	190000	1.45	-							
	11	30900	129.69	190000	1.60	-		**K**	**187**	**EDRE**	**225M4**	1920	580
	13	26800	112.60	190000	1.85	-		**KH**	**187**	**EDRE**	**225M4**	1860	581
	14	24300	102.16	190000	2.0	-							
	17	21000	88.00	190000	2.4	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
37	**13**	26200	109.83	150000	1.20	-								
	17	20900	87.86	150000	1.55	-								
	19	18600	78.14	150000	1.70	-		**K**	**167**	**EDRE**	**225M4**		1340	578
	22	16200	68.07	150000	1.95	-		**KH**	**167**	**EDRE**	**225M4**		1300	579
	24	14400	60.74	150000	2.2	-								
	29	12300	51.77	150000	2.6	-								
	21	16800	70.38	84800	1.05	-								
	24	14500	61.02	84600	1.25	-		**K**	**157**	**EDRE**	**225M4**		950	573
	27	12900	54.29	84100	1.40	-		**KF**	**157**	**EDRE**	**225M4**		1030	574
	32	11100	46.79	83100	1.60	-		**KA**	**157**	**EDRE**	**225M4**		910	575
	39	9070	38.02	81200	2.00	-		**KAF**	**157**	**EDRE**	**225M4**		970	574
	47	7470	31.30	79000	2.4	-								
	27	12900	54.07	58600	1.00	-								
	31	11400	47.82	59000	1.15	-								
	37	9590	40.19	59100	1.35	-								
	41	8650	36.25	58900	1.50	-								
	47	7480	31.37	58400	1.75	-								
	53	6600	27.68	57800	1.95	-		**K**	**127**	**EDRE**	**225M4**		720	568
	62	5700	23.91	56900	2.3	-		**KF**	**127**	**EDRE**	**225M4**		760	569
	70	5040	21.15	55900	2.6	-		**KA**	**127**	**EDRE**	**225M4**		690	570
	83	4240	17.77	54500	3.1	-		**KAF**	**127**	**EDRE**	**225M4**		720	569
	103	3420	14.35	52500	3.5	M2,4,6								
	116	3050	12.79	50200	2.7	-								
	138	2560	10.74	48600	3.1	-								
	171	2070	8.68	46500	3.5	M2,4,6								
	51	6920	29.00	31000	1.05	-								
	56	6280	26.32	32300	1.15	-								
	65	5390	22.62	33700	1.35	-								
	75	4710	19.74	34400	1.55	-		**K**	**107**	**EDRE**	**225M4**		560	563
	88	3990	16.75	34500	1.75	-		**KF**	**107**	**EDRE**	**225M4**		570	564
	101	3490	14.64	34100	1.95	-		**KA**	**107**	**EDRE**	**225M4**		540	565
	110	3200	13.43	32300	1.35	-		**KAF**	**107**	**EDRE**	**225M4**		560	564
	126	2790	11.73	31900	1.55	-								
	149	2370	9.94	31400	1.75	-								
	170	2070	8.69	30800	1.95	-								

8.4 Selection tables for helical-worm gearmotors /2GD T3

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.12	**0.16**	3590	8608	34000	1.15	-	X	**S**	**97R57**	**EDR**	**63S4**	170	617
	0.18	3180	7554	34700	1.30	-	X	**SF**	**97R57**	**EDR**	**63S4**	200	617
								SA	**97R57**	**EDR**	**63S4**	160	617
								SAF	**97R57**	**EDR**	**63S4**	190	617
	0.23	2400	5875	27700	1.05	-		**S**	**87R57**	**EDR**	**63S4**	110	617
	0.27	1980	5187	28500	1.25	-	X	**SF**	**87R57**	**EDR**	**63S4**	130	617
	0.30	1760	4606	28800	1.40	-	X	**SA**	**87R57**	**EDR**	**63S4**	105	617
	0.36	1460	3872	29200	1.70	-	X	**SAF**	**87R57**	**EDR**	**63S4**	120	617
	0.45	1200	3098	12300	1.05	-							
	0.66	1160	2083	12600	1.05	-							
	0.76	980	1813	13900	1.25	-	X	**S**	**77R37**	**EDR**	**63S4**	59	617
	0.79	930	1745	14200	1.30	-	X	**SF**	**77R37**	**EDR**	**63S4**	68	617
	0.86	860	1600	14600	1.45	-	X	**SA**	**77R37**	**EDR**	**63S4**	58	617
	0.98	755	1404	15100	1.65	-	X	**SAF**	**77R37**	**EDR**	**63S4**	65	617
	1.1	660	1245	15500	1.90	-	X						
	1.3	530	1045	8560	1.05	-		**S**	**67R37**	**EDR**	**63S4**	39	617
	1.5	455	914	9180	1.25	-	X	**SF**	**67R37**	**EDR**	**63S4**	46	617
								SA	**67R37**	**EDR**	**63S4**	40	617
								SAF	**67R37**	**EDR**	**63S4**	45	617
	1.7	415	809	9460	1.35	-	X						
	1.9	365	712	9780	1.55	-	X						
	2.2	305	615	10100	1.85	-	X	**S**	**67R37**	**EDR**	**63S4**	39	617
	2.5	275	543	10200	2.1	-	X	**SF**	**67R37**	**EDR**	**63S4**	46	617
	2.9	225	469	10400	2.5	-	X	**SA**	**67R37**	**EDR**	**63S4**	40	617
	3.3	200	424	10500	2.8	-		**SAF**	**67R37**	**EDR**	**63S4**	45	617
	3.8	187	365	10500	3.0	-							
	2.4	285	574	7200	1.05	-							
	2.7	250	506	7480	1.20	-	X						
	3.2	215	438	7700	1.40	-	X	**S**	**57R17**	**EDR**	**63S4**	20	617
	3.6	189	388	7850	1.60	-	X	**SF**	**57R17**	**EDR**	**63S4**	24	617
	4.1	169	336	7950	1.80	-	X	**SA**	**57R17**	**EDR**	**63S4**	20	617
	4.7	145	294	8050	2.1	-	X	**SAF**	**57R17**	**EDR**	**63S4**	23	617
	5.1	139	269	8070	2.2	-							
	4.1	168	336	5290	1.10	-							
	4.7	143	294	5420	1.30	-	X	**S**	**47R17**	**EDR**	**63S4**	17	617
	5.4	98	257	5660	1.90	-	X	**SF**	**47R17**	**EDR**	**63S4**	20	617
	6.0	118	229	5550	1.55	-	X	**SA**	**47R17**	**EDR**	**63S4**	18	617
	6.9	102	200	5610	1.80	-	X	**SAF**	**47R17**	**EDR**	**63S4**	19	617
	7.4	96	187	5640	1.95	-	X						
	7.7	91	179	3000	1.00	-							
	8.7	82	158	3000	1.15	-		**S**	**37R17**	**EDR**	**63S4**	14	617
	9.6	75	144	3000	1.20	-	X	**SF**	**37R17**	**EDR**	**63S4**	15	617
	12	61	118	3000	1.50	-	X	**SA**	**37R17**	**EDR**	**63S4**	13	617
	13	57	110	3000	1.60	-	X	**SAF**	**37R17**	**EDR**	**63S4**	15	617
	6.9	99	201.00*	8190	3.0	-		**S**	**57**	**EDR**	**63S4**	17	592
	7.5	92	184.80*	8210	3.2	-		**SF**	**57**	**EDR**	**63S4**	21	593
	8.7	80	158.12	8240	3.7	-		**SA**	**57**	**EDR**	**63S4**	17	594
	10	71	137.05	8250	4.2	-		**SAF**	**57**	**EDR**	**63S4**	20	593
	6.9	95	201.00*	5680	1.80	-	X						
	7.5	89	184.80*	5700	1.90	-	X	**S**	**47**	**EDR**	**63S4**	14	587
	8.7	77	158.12	5740	2.2	-		**SF**	**47**	**EDR**	**63S4**	17	588
	10	68	137.05	5780	2.5	-		**SA**	**47**	**EDR**	**63S4**	15	589
	11	64	128.10*	5790	2.6	-		**SAF**	**47**	**EDR**	**63S4**	16	588
	12	57	110.73	5810	3.0	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.12	**8.8**	74	157.43	3000	1.25	-	X						
	9.6	68	144.40*	3000	1.35	-	X						
	11	60	122.94	3000	1.55	-	X						
	13	52	106.00*	3000	1.70	-	X						
	14	49	98.80*	3000	1.75	-	X						
	16	44	86.36	3000	1.95	-	X						
	17	41	80.96	3000	2.1	-	X						
	19	37	71.44*	3000	2.3	-	X						
	22	33	63.33	3000	2.5	-							
	25	35	55.93	3000	2.3	-		**S**	**37**		**EDR**	**63S4**	11	583
	27	33	51.30*	3000	2.5	-		**SF**	**37**		**EDR**	**63S4**	12	584
	32	28	43.68	3000	2.9	-		**SA**	**37**		**EDR**	**63S4**	10	585
	37	24	37.66	3000	3.2	-		**SAF**	**37**		**EDR**	**63S4**	12	584
	39	23	35.10*	3000	3.4	-								
	45	20	30.68	3000	3.7	-								
	48	19	28.76	3000	3.9	-								
	54	17	25.38*	3000	4.4	-								
	61	15	22.50*	3000	4.8	-								
	69	14	19.89	3000	3.6	-								
	76	13	18.24*	3000	3.9	-								
	89	11	15.53	2870	4.4	-								
0.18	**0.34**	2480	3872	27500	1.00	-		**S**	**87R57**		**EDR**	**63M4**	110	617
								SF	**87R57**		**EDR**	**63M4**	130	617
								SA	**87R57**		**EDR**	**63M4**	105	617
								SAF	**87R57**		**EDR**	**63M4**	120	617
	0.38	2390	3475	27700	1.05	-								
	0.46	2000	2905	28400	1.25	-	X							
	0.52	1730	2586	28800	1.45	-	X	**S**	**87R57**		**EDR**	**63M4**	105	617
	0.57	1550	2335	29100	1.60	-	X	**SF**	**87R57**		**EDR**	**63M4**	130	617
	0.65	1340	2054	29400	1.85	-	X	**SA**	**87R57**		**EDR**	**63M4**	105	617
	0.73	1190	1824	29500	2.1	-	X	**SAF**	**87R57**		**EDR**	**63M4**	120	617
	0.82	1060	1631	29600	2.3	-	X							
	0.95	1230	1404	12100	1.00	-		**S**	**77R37**		**EDR**	**63M4**	59	617
	1.1	1080	1245	13300	1.15	-		**SF**	**77R37**		**EDR**	**63M4**	68	617
								SA	**77R37**		**EDR**	**63M4**	58	617
								SAF	**77R37**		**EDR**	**63M4**	65	617
	1.2	1000	1100	13800	1.25	-	X							
	1.4	860	954	14600	1.45	-	X	**S**	**77R37**		**EDR**	**63M4**	58	617
	1.6	760	837	15100	1.65	-	X	**SF**	**77R37**		**EDR**	**63M4**	68	617
	1.9	630	714	15600	1.95	-		**SA**	**77R37**		**EDR**	**63M4**	58	617
	2.1	560	637	15800	2.2	-		**SAF**	**77R37**		**EDR**	**63M4**	65	617
	2.3	505	574	16000	2.4	-								
	2.2	500	615	8850	1.15	-								
	2.5	445	543	9270	1.30	-	X	**S**	**67R37**		**EDR**	**63M4**	39	617
	2.8	370	469	9750	1.55	-	X	**SF**	**67R37**		**EDR**	**63M4**	46	617
	3.2	335	424	9950	1.70	-	X	**SA**	**67R37**		**EDR**	**63M4**	40	617
	3.7	300	365	10100	1.90	-		**SAF**	**67R37**		**EDR**	**63M4**	45	617
	4.0	270	336	7320	1.10	-								
	4.5	235	294	7580	1.25	-	X	**S**	**57R17**		**EDR**	**63M4**	20	617
	5.0	220	269	7660	1.35	-	X	**SF**	**57R17**		**EDR**	**63M4**	24	617
	5.8	191	229	7840	1.55	-	X	**SA**	**57R17**		**EDR**	**63M4**	20	617
	6.5	172	204	7930	1.75	-		**SAF**	**57R17**		**EDR**	**63M4**	23	617
	7.1	157	187	8000	1.90	-								



P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.18	**5.2**	160	257	5390	1.15	-							
	6.7	165	200	5310	1.10	-		**S**	**47R17**	**EDR**	**63M4**	17	617
	7.1	154	187	5370	1.20	-	X	**SF**	**47R17**	**EDR**	**63M4**	20	617
	8.1	136	165	5460	1.35	-	X	**SA**	**47R17**	**EDR**	**63M4**	18	617
	9.0	123	148	5520	1.50	-	X	**SAF**	**47R17**	**EDR**	**63M4**	19	617
	10	109	131	5590	1.70	-							
	6.1	174	217.41	10600	3.0	-		**S**	**67**	**EDR**	**63M4**	28	597
	7.0	154	190.11	10600	3.4	-		**SF**	**67**	**EDR**	**63M4**	35	598
	7.4	147	180.60*	10600	3.5	-		**SA**	**67**	**EDR**	**63M4**	29	599
								SAF	**67**	**EDR**	**63M4**	34	598
	6.6	152	201.00*	8020	1.95	-	X	**S**	**57**	**EDR**	**63M4**	17	592
	7.2	142	184.80*	8060	2.1	-		**SF**	**57**	**EDR**	**63M4**	21	593
	8.4	124	158.12	8120	2.4	-		**SA**	**57**	**EDR**	**63M4**	17	594
	9.7	109	137.05	8170	2.7	-		**SAF**	**57**	**EDR**	**63M4**	20	593
	6.6	147	201.00*	5450	1.15	-							
	7.2	137	184.80*	5500	1.25	-	X						
	8.4	120	158.12	5580	1.40	-	X						
	9.7	106	137.05	5640	1.60	-	X	**S**	**47**	**EDR**	**63M4**	14	587
	10	99	128.10*	5660	1.70	-	X	**SF**	**47**	**EDR**	**63M4**	17	588
	12	88	110.73	5710	1.90	-		**SA**	**47**	**EDR**	**63M4**	15	589
	14	76	94.08*	5750	2.2	-		**SAF**	**47**	**EDR**	**63M4**	16	588
	16	69	84.00*	5770	2.4	-							
	19	60	71.75*	5800	2.8	-							
	19	68	69.39	5750	2.3	-							
	13	81	106.00*	3000	1.10	-							
	14	76	98.80*	3000	1.15	-							
	15	68	86.36	3000	1.25	-	X						
	16	64	80.96	3000	1.35	-	X						
	19	57	71.44*	3000	1.45	-	X						
	21	51	63.33	3000	1.60	-	X						
	24	55	55.93	3000	1.50	-							
	26	50	51.30*	3000	1.60	-							
	31	44	43.68	3000	1.85	-							
	35	38	37.66	3000	2.1	-		**S**	**37**	**EDR**	**63M4**	11	583
	38	36	35.10*	3000	2.2	-		**SF**	**37**	**EDR**	**63M4**	12	584
	44	31	30.68	3000	2.4	-		**SA**	**37**	**EDR**	**63M4**	10	585
	46	30	28.76	3000	2.5	-		**SAF**	**37**	**EDR**	**63M4**	12	584
	53	26	25.38*	3000	2.8	-							
	59	23	22.50*	3000	3.1	-							
	67	22	19.89	2990	2.3	-							
	73	20	18.24*	2930	2.6	-							
	86	18	15.53	2800	2.9	-							
	100	15	13.39	2690	3.2	-							
	107	14	12.48*	2640	3.4	-							
	122	12	10.91	2540	3.8	-							
	131	12	10.23	2500	4.0	-							
0.25	**0.54**	2350	2586	27800	1.05	-							
	0.60	2100	2335	28300	1.20	-	X	**S**	**87R57**	**EDRS**	**71S4**	110	617
	0.68	1830	2054	28700	1.35	-	X	**SF**	**87R57**	**EDRS**	**71S4**	130	617
	0.77	1620	1824	29000	1.55	-	X	**SA**	**87R57**	**EDRS**	**71S4**	110	617
	0.86	1450	1631	29200	1.70	-	X	**SAF**	**87R57**	**EDRS**	**71S4**	125	617
	1.5	850	930	29800	2.9	-							
	1.5	1160	954	12700	1.05	-							
	1.7	1010	837	13700	1.20	-	X	**S**	**77R37**	**EDRS**	**71S4**	61	617
	2.0	850	714	14600	1.45	-	X	**SF**	**77R37**	**EDRS**	**71S4**	71	617
	2.2	755	637	15100	1.65	-		**SA**	**77R37**	**EDRS**	**71S4**	61	617
	2.4	685	574	15400	1.80	-		**SAF**	**77R37**	**EDRS**	**71S4**	67	617
	2.8	585	499	15800	2.1	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.25	**3.0**	505	469	8810	1.15	-								
	3.3	455	424	9200	1.25	-	X	**S**	**67R37**	**EDRS**	**71S4**		42	617
	3.8	405	365	9540	1.40	-	X	**SF**	**67R37**	**EDRS**	**71S4**		48	617
	4.4	350	319	9860	1.60	-		**SA**	**67R37**	**EDRS**	**71S4**		43	617
	5.0	305	281	10100	1.85	-		**SAF**	**67R37**	**EDRS**	**71S4**		47	617
	5.2	295	269	7100	1.00	-								
	6.2	255	229	7440	1.15	-		**S**	**57R17**	**EDRS**	**71S4**		23	617
	6.9	230	204	7610	1.30	-		**SF**	**57R17**	**EDRS**	**71S4**		27	617
	7.5	210	187	7730	1.40	-		**SA**	**57R17**	**EDRS**	**71S4**		23	617
	8.5	187	165	7860	1.60	-		**SAF**	**57R17**	**EDRS**	**71S4**		25	617
	11	150	131	8030	2.0	-								
	6.5	230	217.41	10400	2.2	-								
	7.4	200	190.11	10500	2.5	-								
	7.8	196	180.60*	10500	2.7	-		**S**	**67**	**EDRS**	**71S4**		32	597
	8.9	174	158.45	10600	3.0	-		**SF**	**67**	**EDRS**	**71S4**		38	598
	10	150	134.40*	10600	3.5	-		**SA**	**67**	**EDRS**	**71S4**		33	599
	12	137	121.33	10600	3.8	-		**SAF**	**67**	**EDRS**	**71S4**		37	598
	13	122	106.75*	10700	4.2	-								
	7.0	200	201.00*	7780	1.45	-	X							
	7.6	188	184.80*	7860	1.55	-	X							
	8.9	164	158.12	7970	1.80	-		**S**	**57**	**EDRS**	**71S4**		20	592
	10	145	137.05	8050	2.0	-		**SF**	**57**	**EDRS**	**71S4**		24	593
	11	136	128.10*	8080	2.2	-		**SA**	**57**	**EDRS**	**71S4**		20	594
	13	120	110.73	8130	2.5	-		**SAF**	**57**	**EDRS**	**71S4**		23	593
	15	104	94.08*	8180	2.8	-								
	17	94	84.00*	8210	3.1	-								
	8.9	159	158.12	5400	1.05	-								
	10	140	137.05	5490	1.20	-								
	11	132	128.10*	5520	1.25	-								
	13	116	110.73	5590	1.45	-								
	15	101	94.08*	5660	1.65	-		**S**	**47**	**EDRS**	**71S4**		16	587
	17	91	84.00*	5690	1.85	-		**SF**	**47**	**EDRS**	**71S4**		20	588
	20	79	71.75*	5740	2.1	-		**SA**	**47**	**EDRS**	**71S4**		17	589
	20	91	69.39	5670	1.70	-		**SAF**	**47**	**EDRS**	**71S4**		19	588
	21	75	67.20*	5750	2.2	-								
	22	84	63.80*	5700	1.85	-								
	26	72	54.59	5740	2.1	-								
	30	64	47.32	5660	2.4	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.25	**17**	85	80.96	3000	1.00	-							
	20	76	71.44*	3000	1.10	-							
	22	68	63.33	3000	1.20	-	X						
	25	72	55.93	3000	1.10	-							
	27	67	51.30*	3000	1.20	-							
	32	58	43.68	3000	1.40	-							
	37	50	37.66	3000	1.55	-							
	40	47	35.10*	3000	1.65	-							
	46	42	30.68	3000	1.85	-							
	49	39	28.76	3000	1.90	-							
	55	35	25.38*	3000	2.1	-							
	62	31	22.50*	3000	2.4	-		**S**	**37**	**EDRS**	**71S4**	13	583
	71	29	19.89	2820	1.75	-		**SF**	**37**	**EDRS**	**71S4**	15	584
	77	27	18.24*	2770	1.95	-		**SA**	**37**	**EDRS**	**71S4**	13	585
	90	23	15.53	2660	2.2	-		**SAF**	**37**	**EDRS**	**71S4**	15	584
	105	20	13.39	2570	2.4	-							
	113	19	12.48*	2520	2.6	-							
	129	16	10.91	2430	2.9	-							
	137	16	10.23	2390	3.0	-							
	156	14	9.02*	2310	3.4	-							
	176	12	8.00*	2240	3.7	-							
	207	10	6.80*	2140	4.1	-							
	222	9.8	6.33	2080	3.6	-							
	261	8.3	5.38	1990	4.1	-							
	289	7.5	4.86*	1930	4.4	-							
	354	6.2	3.97	1820	5.2	-							
0.37	**0.84**	2270	1631	27900	1.10	-		**S**	**87R57**	**EDRS**	**71M4**	115	617
	1.5	1340	930	29400	1.85	-	X	**SF**	**87R57**	**EDRS**	**71M4**	135	617
	1.6	1210	831	29500	2.1	-	X	**SA**	**87R57**	**EDRS**	**71M4**	110	617
								SAF	**87R57**	**EDRS**	**71M4**	125	617
	2.2	1170	637	12600	1.05	-							
	2.4	1060	574	13400	1.15	-		**S**	**77R37**	**EDRS**	**71M4**	62	617
	2.8	910	499	14300	1.35	-		**SF**	**77R37**	**EDRS**	**71M4**	72	617
	3.1	800	438	14900	1.55	-		**SA**	**77R37**	**EDRS**	**71M4**	62	617
	3.5	710	389	15300	1.75	-		**SAF**	**77R37**	**EDRS**	**71M4**	68	617
	4.3	545	319	8430	1.05	-		**S**	**67R37**	**EDRS**	**71M4**	43	617
	4.9	480	281	9010	1.20	-		**SF**	**67R37**	**EDRS**	**71M4**	49	617
	5.6	430	246	9370	1.30	-		**SA**	**67R37**	**EDRS**	**71M4**	44	617
								SAF	**67R37**	**EDRS**	**71M4**	48	617
	5.4	440	256.47	16000	2.9	-		**S**	**77**	**EDRS**	**71M4**	54	602
	6.1	390	225.26	16000	3.2	-		**SF**	**77**	**EDRS**	**71M4**	64	603
	6.4	370	214.00*	16000	3.4	-		**SA**	**77**	**EDRS**	**71M4**	54	604
								SAF	**77**	**EDRS**	**71M4**	60	603
	6.3	345	217.41	9890	1.50	-							
	7.2	305	190.11	10100	1.70	-		**S**	**67**	**EDRS**	**71M4**	34	597
	7.6	295	180.60*	10100	1.75	-		**SF**	**67**	**EDRS**	**71M4**	41	598
	8.7	260	158.45	10300	2.00	-		**SA**	**67**	**EDRS**	**71M4**	35	599
	10	225	134.40*	10400	2.3	-		**SAF**	**67**	**EDRS**	**71M4**	40	598
	11	205	121.33	10500	2.5	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.37	**7.4**	280	184.80*	7220	1.05	-								
	8.7	245	158.12	7500	1.20	-	X							
	10	215	137.05	7690	1.35	-								
	11	205	128.10*	7760	1.45	-								
	12	181	110.73	7890	1.65	-		**S**	**57**	**EDRS**	**71M4**		21	592
	15	156	94.08*	8000	1.85	-		**SF**	**57**	**EDRS**	**71M4**		25	593
	16	142	84.00*	8060	2.0	-		**SA**	**57**	**EDRS**	**71M4**		21	594
	19	123	71.75*	8120	2.3	-		**SAF**	**57**	**EDRS**	**71M4**		24	593
	20	139	69.39	8070	1.75	-								
	20	116	67.20*	8150	2.4	-								
	22	129	63.80*	8100	1.90	-								
	15	152	94.08*	5430	1.10	-								
	16	137	84.00*	5500	1.20	-								
	19	119	71.75*	5580	1.40	-								
	20	137	69.39	5460	1.15	-								
	20	113	67.20*	5610	1.50	-								
	22	127	63.80*	5510	1.20	-								
	25	110	54.59	5590	1.40	-								
	29	96	47.32	5420	1.60	-		**S**	**47**	**EDRS**	**71M4**		17	587
	31	90	44.22*	5330	1.70	-		**SF**	**47**	**EDRS**	**71M4**		21	588
	36	79	38.23	5140	1.95	-		**SA**	**47**	**EDRS**	**71M4**		18	589
	42	67	32.48*	4940	2.3	-		**SAF**	**47**	**EDRS**	**71M4**		20	588
	47	61	29.00*	4790	2.6	-								
	56	52	24.77	4600	2.9	-								
	59	49	23.20*	4520	3.1	-								
	68	46	20.33	4180	2.4	-								
	78	40	17.62	4030	2.8	-								
	83	37	16.47*	3960	2.9	-								
	37	76	37.66	3000	1.05	-								
	39	71	35.10*	3000	1.10	-								
	45	63	30.68	3000	1.20	-								
	48	59	28.76	3000	1.25	-								
	54	52	25.38*	2940	1.40	-								
	61	47	22.50*	2870	1.55	-								
	69	44	19.89	2610	1.15	-								
	75	41	18.24*	2570	1.25	-								
	89	35	15.53	2500	1.45	-		**S**	**37**	**EDRS**	**71M4**		14	583
	103	30	13.39	2420	1.60	-		**SF**	**37**	**EDRS**	**71M4**		16	584
	110	28	12.48*	2390	1.70	-		**SA**	**37**	**EDRS**	**71M4**		14	585
	126	25	10.91	2320	1.95	-		**SAF**	**37**	**EDRS**	**71M4**		16	584
	134	23	10.23	2290	2.0	-								
	152	21	9.02*	2220	2.2	-								
	172	18	8.00*	2160	2.4	-								
	202	16	6.80*	2070	2.7	-								
	217	15	6.33	2020	2.4	-								
	255	13	5.38	1940	2.7	-								
	283	11	4.86*	1880	2.9	-								
	347	9.3	3.97	1780	3.4	-								
0.55	**1.2**	2470	1191	27600	1.00	-								
	1.4	2150	1032	28200	1.15	-								
	1.5	1990	930	28500	1.25	-	X	**S**	**87R57**	**EDRS**	**80S4**		115	617
	1.7	1790	831	28800	1.40	-	X	**SF**	**87R57**	**EDRS**	**80S4**		135	617
	2.0	1560	719	29100	1.60	-	X	**SA**	**87R57**	**EDRS**	**80S4**		110	617
	2.3	1360	624	29300	1.85	-	X	**SAF**	**87R57**	**EDRS**	**80S4**		130	617
	2.5	1230	558	29500	2.0	-								
	3.3	980	435	29700	2.5	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.55	**3.2**	1170	438	12500	1.05	-							
	3.6	1040	389	13500	1.20	-		**S**	**77R37**	**EDRS**	**80S4**	65	617
	4.3	880	327	14500	1.40	-		**SF**	**77R37**	**EDRS**	**80S4**	75	617
	4.9	795	289	14900	1.55	-		**SA**	**77R37**	**EDRS**	**80S4**	65	617
	5.7	690	250	15400	1.80	-		**SAF**	**77R37**	**EDRS**	**80S4**	71	617
	6.4	565	221	8230	1.00	-		**S**	**67R37**	**EDRS**	**80S4**	46	617
	7.2	515	198	8700	1.10	-		**SF**	**67R37**	**EDRS**	**80S4**	52	617
	8.4	440	168	9300	1.30	-		**SA**	**67R37**	**EDRS**	**80S4**	47	617
								SAF	**67R37**	**EDRS**	**80S4**	51	617
	4.9	750	288.00*	29900	3.0	-		**S**	**87**	**EDRS**	**80S4**	91	607
	5.5	680	258.18	29900	3.4	-		**SF**	**87**	**EDRS**	**80S4**	110	608
	6.4	590	222.40*	30000	3.8	-		**SA**	**87**	**EDRS**	**80S4**	88	609
	7.0	545	202.96	30000	4.0	-		**SAF**	**87**	**EDRS**	**80S4**	105	608
	5.5	635	256.47	15600	2.00	-							
	6.3	565	225.26	15800	2.2	-		**S**	**77**	**EDRS**	**80S4**	55	602
	6.6	540	214.00*	15900	2.3	-		**SF**	**77**	**EDRS**	**80S4**	65	603
	7.5	485	189.09	16000	2.6	-		**SA**	**77**	**EDRS**	**80S4**	54	604
	8.8	420	161.60*	16000	3.0	-		**SAF**	**77**	**EDRS**	**80S4**	61	603
	6.5	500	217.41	8820	1.05	-							
	7.4	445	190.11	9270	1.15	-							
	7.8	425	180.60*	9410	1.20	-							
	8.9	380	158.45	9700	1.35	-							
	11	325	134.40*	9990	1.60	-		**S**	**67**	**EDRS**	**80S4**	35	597
	12	300	121.33	10100	1.75	-		**SF**	**67**	**EDRS**	**80S4**	42	598
	13	265	106.75*	10300	1.95	-		**SA**	**67**	**EDRS**	**80S4**	36	599
	14	250	100.80*	10300	2.0	-		**SAF**	**67**	**EDRS**	**80S4**	41	598
	16	215	85.83	10400	2.4	-							
	19	220	75.06	10400	2.2	-							
	22	197	65.63	10500	2.4	-							
	13	260	110.73	7400	1.15	-							
	15	225	94.08*	7640	1.30	-							
	17	205	84.00*	7770	1.40	-							
	20	178	71.75*	7910	1.60	-							
	21	168	67.20*	7950	1.65	-							
	26	161	54.59	7980	1.50	-		**S**	**57**	**EDRS**	**80S4**	24	592
	30	141	47.32	8060	1.75	-		**SF**	**57**	**EDRS**	**80S4**	28	593
	32	132	44.22*	8090	1.85	-		**SA**	**57**	**EDRS**	**80S4**	24	594
	37	115	38.23	8150	2.1	-		**SAF**	**57**	**EDRS**	**80S4**	27	593
	44	99	32.48*	7880	2.5	-							
	49	89	29.00*	7640	2.8	-							
	57	76	24.77	7310	3.2	-							
	61	72	23.20*	7170	3.3	-							
	70	67	20.33	6690	2.5	-							
	21	163	67.20*	5380	1.00	-							
	30	139	47.32	4970	1.10	-							
	32	130	44.22*	4910	1.20	-							
	37	114	38.23	4780	1.35	-							
	44	98	32.48*	4610	1.60	-							
	49	88	29.00*	4500	1.75	-							
	57	76	24.77	4340	2.0	-		**S**	**47**	**EDRS**	**80S4**	20	587
	61	71	23.20*	4270	2.1	-		**SF**	**47**	**EDRS**	**80S4**	24	588
	70	66	20.33	3890	1.65	-		**SA**	**47**	**EDRS**	**80S4**	21	589
	80	58	17.62	3770	1.90	-		**SAF**	**47**	**EDRS**	**80S4**	23	588
	86	54	16.47*	3720	2.0	-							
	99	47	14.24	3600	2.3	-							
	117	40	12.10*	3460	2.7	-							
	131	36	10.80*	3370	3.0	-							
	153	31	9.23*	3240	3.5	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.55	**63**	68	22.50*	2580	1.10	-							
	74	58	19.13*	2520	1.20	-							
	106	44	13.39	2180	1.10	-							
	113	41	12.48*	2160	1.15	-							
	130	36	10.91	2120	1.35	-							
	138	34	10.23	2100	1.40	-		**S**	**37**	**EDRS**	**80S4**	17	583
	157	30	9.02*	2050	1.55	-		**SF**	**37**	**EDRS**	**80S4**	19	584
	177	27	8.00*	2000	1.70	-		**SA**	**37**	**EDRS**	**80S4**	17	585
	208	23	6.80*	1940	1.90	-		**SAF**	**37**	**EDRS**	**80S4**	19	584
	223	21	6.33	1890	1.65	-							
	263	18	5.38	1820	1.85	-							
	291	16	4.86*	1780	2.0	-							
	357	14	3.97	1690	2.4	-							
0.75	**1.3**	4130	1070	32200	1.00	-							
	1.6	3550	928	34000	1.20	-	X						
	1.7	3140	824	34700	1.35	-		**S**	**97R57**	**EDRE**	**80M4**	175	617
	2.0	2240	714	35900	1.85	-	X	**SF**	**97R57**	**EDRE**	**80M4**	210	617
	2.3	2380	626	35800	1.75	-		**SA**	**97R57**	**EDRE**	**80M4**	170	617
	2.7	2040	538	36100	2.0	-		**SAF**	**97R57**	**EDRE**	**80M4**	195	617
	3.0	1850	484	36300	2.3	-							
	1.7	2450	831	27600	1.00	-							
	2.0	2130	719	28200	1.15	-	X	**S**	**87R57**	**EDRE**	**80M4**	115	617
	2.3	1860	624	28700	1.35	-	X	**SF**	**87R57**	**EDRE**	**80M4**	140	617
	2.6	1680	558	28900	1.50	-	X	**SA**	**87R57**	**EDRE**	**80M4**	115	617
	3.3	1340	435	29300	1.80	-	X	**SAF**	**87R57**	**EDRE**	**80M4**	130	617
	4.4	1030	323	29700	2.3	-							
	4.4	1200	327	12300	1.05	-		**S**	**77R37**	**EDRE**	**80M4**	68	617
	5.0	1080	289	13200	1.15	-		**SF**	**77R37**	**EDRE**	**80M4**	77	617
	5.7	930	250	14200	1.30	-		**SA**	**77R37**	**EDRE**	**80M4**	67	617
	6.6	820	219	14800	1.50	-		**SAF**	**77R37**	**EDRE**	**80M4**	74	617
	5.0	1010	288.00*	29700	2.2	-		**S**	**87**	**EDRE**	**80M4**	93	607
	5.6	910	258.18	29800	2.5	-		**SF**	**87**	**EDRE**	**80M4**	115	608
	6.4	800	222.40*	29800	2.8	-		**SA**	**87**	**EDRE**	**80M4**	91	609
	7.1	735	202.96	29900	3.0	-		**SAF**	**87**	**EDRE**	**80M4**	105	608
	5.6	850	256.47	14600	1.50	-	X						
	6.4	760	225.26	15100	1.65	-							
	6.7	730	214.00*	15200	1.75	-							
	7.6	650	189.09	15500	1.95	-		**S**	**77**	**EDRE**	**80M4**	58	602
	8.9	565	161.60*	15800	2.2	-		**SF**	**77**	**EDRE**	**80M4**	67	603
	9.7	520	148.15	16000	2.4	-		**SA**	**77**	**EDRE**	**80M4**	57	604
	11	460	130.00*	16000	2.6	-		**SAF**	**77**	**EDRE**	**80M4**	64	603
	12	440	123.20*	16000	2.7	-							
	13	390	107.83	16000	3.0	-							
	9.1	510	158.45	8740	1.00	-							
	11	440	134.40*	9300	1.15	-							
	12	400	121.33	9560	1.30	-							
	13	360	106.75*	9820	1.45	-							
	14	340	100.80*	9920	1.50	-		**S**	**67**	**EDRE**	**80M4**	38	597
	17	295	85.83	10100	1.75	-		**SF**	**67**	**EDRE**	**80M4**	44	598
	19	300	75.06	10100	1.60	-		**SA**	**67**	**EDRE**	**80M4**	39	599
	22	260	65.63	10300	1.80	-		**SAF**	**67**	**EDRE**	**80M4**	43	598
	23	250	62.35*	10300	1.90	-							
	26	220	54.70	10200	2.2	-							
	31	191	46.40*	9740	2.5	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.75	**17**	275	84.00*	7290	1.05	-							
	20	235	71.75*	7560	1.20	-							
	21	225	67.20*	7640	1.25	-							
	25	193	56.61	7830	1.35	-							
	26	215	54.59	7700	1.15	-							
	30	190	47.32	7850	1.30	-							
	32	178	44.22*	7910	1.40	-		**S**	**57**	**EDRE**	**80M4**	27	592
	38	155	38.23	7910	1.60	-		**SF**	**57**	**EDRE**	**80M4**	31	593
	44	133	32.48*	7590	1.85	-		**SA**	**57**	**EDRE**	**80M4**	26	594
	49	119	29.00*	7380	2.0	-		**SAF**	**57**	**EDRE**	**80M4**	29	593
	58	103	24.77	7080	2.4	-							
	62	96	23.20*	6950	2.5	-							
	71	90	20.33	6420	1.90	-							
	81	78	17.62	6200	2.2	-							
	87	73	16.47*	6100	2.3	-							
	101	64	14.24	5870	2.7	-							
	38	153	38.23	4400	1.00	-							
	44	131	32.48*	4290	1.20	-							
	49	118	29.00*	4200	1.30	-							
	58	102	24.77	4080	1.50	-							
	62	96	23.20*	4030	1.60	-							
	71	89	20.33	3590	1.25	-							
	81	78	17.62	3510	1.40	-							
	87	73	16.47*	3470	1.50	-		**S**	**47**	**EDRE**	**80M4**	23	587
	101	63	14.24	3380	1.75	-		**SF**	**47**	**EDRE**	**80M4**	27	588
	119	54	12.10*	3280	2.0	-		**SA**	**47**	**EDRE**	**80M4**	24	589
	133	48	10.80*	3200	2.2	-		**SAF**	**47**	**EDRE**	**80M4**	26	588
	156	42	9.23*	3090	2.6	-							
	166	39	8.64*	3040	2.8	-							
	197	33	7.28	2920	3.1	-							
	224	29	6.40*	2810	2.6	-							
	266	25	5.39	2690	3.0	-							
	301	22	4.76	2610	3.3	-							
	359	18	4.00*	2490	3.3	-							
	140	46	10.23	1900	1.05	-							
	159	40	9.02*	1880	1.15	-							
	179	36	8.00*	1850	1.25	-		**S**	**37**	**EDRE**	**80M4**	20	583
	211	31	6.80*	1800	1.40	-		**SF**	**37**	**EDRE**	**80M4**	21	584
	227	29	6.33	1760	1.20	-		**SA**	**37**	**EDRE**	**80M4**	20	585
	267	24	5.38	1710	1.40	-		**SAF**	**37**	**EDRE**	**80M4**	21	584
	295	22	4.86*	1680	1.50	-							
	362	18	3.97	1610	1.75	-							
1.1	**2.0**	3360	714	34400	1.25	-	X						
	2.3	3570	626	34000	1.15	-	X	**S**	**97R57**	**EDRE**	**90M4**	180	617
	2.6	3070	538	34800	1.35	-		**SF**	**97R57**	**EDRE**	**90M4**	215	617
	2.9	2780	484	35300	1.50	-		**SA**	**97R57**	**EDRE**	**90M4**	175	617
	3.4	2410	420	35700	1.75	-		**SAF**	**97R57**	**EDRE**	**90M4**	200	617
	2.9	2230	485	28000	1.10	-							
	3.3	2030	435	28400	1.20	-	X						
	3.8	1780	378	28800	1.35	-	X	**S**	**87R57**	**EDRE**	**90M4**	120	617
	4.4	1550	323	29100	1.55	-	X	**SF**	**87R57**	**EDRE**	**90M4**	140	617
	5.0	1360	281	29300	1.75	-		**SA**	**87R57**	**EDRE**	**90M4**	120	617
	5.6	1450	255	29200	1.35	-		**SAF**	**87R57**	**EDRE**	**90M4**	135	617
	6.4	1270	222	29400	1.55	-							
	6.9	1190	205	29500	1.65	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
1.1	**6.5**	1230	219	12000	1.00	-		**S**	**77R37**	**EDRE**	**90M4**		71	617
								SF	**77R37**	**EDRE**	**90M4**		81	617
								SA	**77R37**	**EDRE**	**90M4**		71	617
								SAF	**77R37**	**EDRE**	**90M4**		78	617
	5.0	1550	286.40*	36500	2.6	-		**S**	**97**	**EDRE**	**90M4**		155	612
	5.4	1430	262.22	36600	2.8	-		**SF**	**97**	**EDRE**	**90M4**		190	613
	6.1	1270	231.67	36700	3.1	-		**SA**	**97**	**EDRE**	**90M4**		150	614
								SAF	**97**	**EDRE**	**90M4**		175	613
	4.9	1490	288.00*	29200	1.50	-								
	5.5	1350	258.18	29300	1.70	-		**S**	**87**	**EDRE**	**90M4**		98	607
	6.4	1180	222.40*	29500	1.90	-		**SF**	**87**	**EDRE**	**90M4**		120	608
	7.0	1080	202.96	29600	2.00	-		**SA**	**87**	**EDRE**	**90M4**		95	609
	7.9	970	180.00*	29700	2.1	-		**SAF**	**87**	**EDRE**	**90M4**		110	608
	9.4	830	151.30	29800	2.4	-								
	6.3	1130	225.26	12900	1.10	-								
	6.6	1080	214.00*	13300	1.15	-	X							
	7.5	960	189.09	14000	1.30	-								
	8.8	830	161.60*	14700	1.50	-		**S**	**77**	**EDRE**	**90M4**		62	602
	9.6	775	148.15	15000	1.60	-		**SF**	**77**	**EDRE**	**90M4**		71	603
	11	685	130.00*	15400	1.75	-		**SA**	**77**	**EDRE**	**90M4**		61	604
	12	655	123.20*	15500	1.85	-		**SAF**	**77**	**EDRE**	**90M4**		68	603
	13	575	107.83	15800	2.0	-								
	15	525	97.14	15900	2.2	-								
	17	465	85.22	16000	2.4	-								
	14	505	100.80*	8800	1.05	-								
	17	435	85.83	9340	1.20	-								
	18	400	78.00*	9580	1.30	-								
	22	390	65.63	9640	1.20	-								
	23	370	62.35*	9750	1.30	-		**S**	**67**	**EDRE**	**90M4**		42	597
	26	330	54.70	9540	1.45	-		**SF**	**67**	**EDRE**	**90M4**		48	598
	31	280	46.40*	9210	1.70	-		**SA**	**67**	**EDRE**	**90M4**		43	599
	34	255	41.89	9010	1.85	-		**SAF**	**67**	**EDRE**	**90M4**		47	598
	39	225	36.85	8750	2.1	-								
	41	215	34.80*	8630	2.2	-								
	48	185	29.63	8300	2.6	-								
	37	225	38.23	7390	1.05	-								
	44	197	32.48*	7150	1.25	-								
	49	177	29.00*	6980	1.40	-								
	57	152	24.77	6740	1.60	-								
	61	143	23.20*	6640	1.70	-		**S**	**57**	**EDRE**	**90M4**		30	592
	73	121	19.54	6370	1.75	-		**SF**	**57**	**EDRE**	**90M4**		34	593
	81	116	17.62	5850	1.45	-		**SA**	**57**	**EDRE**	**90M4**		30	594
	86	108	16.47*	5770	1.55	-		**SAF**	**57**	**EDRE**	**90M4**		33	593
	100	94	14.24	5590	1.80	-								
	117	80	12.10*	5380	2.1	-								
	131	72	10.80*	5240	2.4	-								
	154	62	9.23*	5040	2.7	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
1.1	**57**	151	24.77	3660	1.00	-							
	61	142	23.20*	3640	1.05	-							
	73	120	19.54	3560	1.20	-							
	86	108	16.47*	3060	1.00	-							
	100	94	14.24	3030	1.15	-							
	117	80	12.10*	2980	1.35	-		**S**	**47**	**EDRE**	**90M4**	27	587
	131	72	10.80*	2930	1.50	-		**SF**	**47**	**EDRE**	**90M4**	30	588
	154	62	9.23*	2860	1.75	-		**SA**	**47**	**EDRE**	**90M4**	28	589
	164	58	8.64*	2830	1.90	-		**SAF**	**47**	**EDRE**	**90M4**	29	588
	195	49	7.28	2740	2.1	-							
	222	44	6.40*	2650	1.75	-							
	263	37	5.39	2560	2.0	-							
	298	32	4.76	2490	2.2	-							
	355	27	4.00*	2390	2.2	-							
	292	33	4.86*	1510	1.00	-		**S**	**37**	**EDRE**	**90M4**	24	583
	358	27	3.97	1470	1.20	-		**SF**	**37**	**EDRE**	**90M4**	25	584
								SA	**37**	**EDRE**	**90M4**	23	585
								SAF	**37**	**EDRE**	**90M4**	25	584
1.5	**2.7**	4200	538	31300	1.00	-							
	3.0	3790	484	33600	1.10	-		**S**	**97R57**	**EDRE**	**90L4**	185	617
	3.4	3300	420	34500	1.25	-	X	**SF**	**97R57**	**EDRE**	**90L4**	215	617
	3.8	2980	376	35000	1.40	-	X	**SA**	**97R57**	**EDRE**	**90L4**	180	617
	4.4	2610	327	35500	1.60	-		**SAF**	**97R57**	**EDRE**	**90L4**	205	617
	3.8	2440	378	27600	1.00	-							
	4.4	2120	323	28200	1.15	-		**S**	**87R57**	**EDRE**	**90L4**	125	617
	5.1	1860	281	28700	1.30	-	X	**SF**	**87R57**	**EDRE**	**90L4**	145	617
	6.4	1740	222	28800	1.15	-		**SA**	**87R57**	**EDRE**	**90L4**	120	617
	7.0	1620	205	29000	1.20	-		**SAF**	**87R57**	**EDRE**	**90L4**	135	617
	5.0	2100	286.40*	36100	1.90	-		**S**	**97**	**EDRE**	**90L4**	160	612
	5.4	1940	262.22	36200	2.1	-		**SF**	**97**	**EDRE**	**90L4**	190	613
	6.2	1730	231.67	36400	2.3	-		**SA**	**97**	**EDRE**	**90L4**	155	614
	7.3	1480	196.52	36600	2.7	-		**SAF**	**97**	**EDRE**	**90L4**	180	613
	5.0	2030	288.00*	28400	1.10	-							
	5.5	1830	258.18	28700	1.25	-							
	6.4	1600	222.40*	29000	1.40	-							
	7.0	1470	202.96	29200	1.45	-		**S**	**87**	**EDRE**	**90L4**	100	607
	7.9	1320	180.00*	29400	1.60	-		**SF**	**87**	**EDRE**	**90L4**	120	608
	9.4	1120	151.30	29600	1.75	-		**SA**	**87**	**EDRE**	**90L4**	98	609
	10	1040	139.05	29700	1.90	-		**SAF**	**87**	**EDRE**	**90L4**	115	608
	12	930	123.48	29700	2.1	-							
	13	840	110.40*	29800	2.3	-							
	14	760	99.26	29900	2.5	-							
	8.8	1130	161.60*	12800	1.10	-							
	9.6	1050	148.15	13500	1.20	-	X						
	11	930	130.00*	14200	1.30	-							
	12	880	123.20*	14500	1.35	-							
	13	785	107.83	15000	1.50	-							
	15	710	97.14	15300	1.60	-							
	17	630	85.22	15400	1.75	-		**S**	**77**	**EDRE**	**90L4**	64	602
	19	635	75.09	14100	1.70	-		**SF**	**77**	**EDRE**	**90L4**	74	603
	20	605	71.33	14000	1.80	-		**SA**	**77**	**EDRE**	**90L4**	64	604
	21	500	66.67	14500	2.0	-		**SAF**	**77**	**EDRE**	**90L4**	71	603
	23	540	63.03	13600	2.0	-							
	25	430	56.92	14000	2.2	-							
	27	465	53.87	13200	2.4	-							
	29	425	49.38	12900	2.6	-							
	33	375	43.33	12500	2.9	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
1.5	**26**	445	54.70	8790	1.05	-								
	31	380	46.40*	8570	1.25	-								
	34	345	41.89	8420	1.40	-								
	39	305	36.85	8230	1.55	-								
	41	290	34.80*	8140	1.65	-								
	48	250	29.63	7880	1.90	-		**S**	**67**		**EDRE**	**90L4**	44	597
	53	225	26.93	7720	2.1	-		**SF**	**67**		**EDRE**	**90L4**	51	598
	59	215	24.44	6990	1.55	-		**SA**	**67**		**EDRE**	**90L4**	46	599
	62	205	23.22*	6930	1.65	-		**SAF**	**67**		**EDRE**	**90L4**	50	598
	70	184	20.37	6770	1.85	-								
	83	157	17.28*	6560	2.2	-								
	92	142	15.60*	6420	2.4	-								
	104	125	13.73*	6240	2.7	-								
	49	235	29.00*	6500	1.00	-								
	58	205	24.77	6330	1.20	-								
	62	194	23.20*	6250	1.25	-								
	73	164	19.54	6040	1.30	-		**S**	**57**		**EDRE**	**90L4**	33	592
	81	157	17.62	5420	1.05	-		**SF**	**57**		**EDRE**	**90L4**	37	593
	87	147	16.47*	5360	1.15	-		**SA**	**57**		**EDRE**	**90L4**	33	594
	100	128	14.24	5240	1.35	-		**SAF**	**57**		**EDRE**	**90L4**	36	593
	118	109	12.10*	5080	1.55	-								
	132	98	10.80*	4970	1.75	-								
	155	84	9.23*	4800	2.0	-								
	118	108	12.10*	2620	1.00	-								
	132	97	10.80*	2620	1.10	-								
	155	83	9.23*	2590	1.30	-								
	166	78	8.64*	2580	1.40	-		**S**	**47**		**EDRE**	**90L4**	29	587
	196	66	7.28	2530	1.55	-		**SF**	**47**		**EDRE**	**90L4**	33	588
	223	59	6.40*	2450	1.30	-		**SA**	**47**		**EDRE**	**90L4**	30	589
	265	50	5.39	2390	1.50	-		**SAF**	**47**		**EDRE**	**90L4**	32	588
	300	44	4.76	2340	1.65	-								
	358	37	4.00*	2260	1.65	-								
2.2	**4.4**	3870	327	33400	1.10	-		**S**	**97R57**		**EDRE**	**100M4**	190	617
	5.0	3420	287	34300	1.25	-	X	**SF**	**97R57**		**EDRE**	**100M4**	220	617
	5.7	2990	252	35000	1.40	-	X	**SA**	**97R57**		**EDRE**	**100M4**	180	617
								SAF	**97R57**		**EDRE**	**100M4**	210	617
	5.0	3090	286.40*	34800	1.30	-								
	5.4	2850	262.22	35200	1.40	-	X							
	6.2	2540	231.67	35600	1.55	-								
	7.2	2180	196.52	36000	1.80	-								
	7.9	2020	180.95	36100	1.90	-		**S**	**97**		**EDRE**	**100M4**	165	612
	8.8	1820	161.74	36300	2.1	-		**SF**	**97**		**EDRE**	**100M4**	195	613
	9.8	1650	145.60*	36500	2.2	-		**SA**	**97**		**EDRE**	**100M4**	160	614
	11	1500	131.85	36600	2.4	-		**SAF**	**97**		**EDRE**	**100M4**	185	613
	12	1340	116.92	36700	2.6	-								
	13	1220	105.71	36800	2.8	-								
	16	1040	89.60*	36900	3.1	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
2.2	**7.0**	2170	202.96	28100	1.00	-							
	7.9	1940	180.00*	28500	1.05	-							
	9.4	1650	151.30	29000	1.20	-							
	10	1530	139.05	29100	1.30	-							
	12	1370	123.48	29300	1.40	-							
	13	1230	110.40*	29500	1.55	-		**S**	**87**	**EDRE**	**100M4**	105	607
	14	1120	99.26	29600	1.70	-		**SF**	**87**	**EDRE**	**100M4**	125	608
	17	980	86.15	29700	1.90	-		**SA**	**87**	**EDRE**	**100M4**	105	609
	17	1050	81.76	29600	1.50	-		**SAF**	**87**	**EDRE**	**100M4**	120	608
	18	880	77.14	29800	2.1	-							
	20	910	70.43	29800	1.75	-							
	22	830	64.27	29800	1.90	-							
	25	740	57.00*	29900	2.2	-							
	13	1150	107.83	12700	1.00	-							
	15	1040	97.14	13500	1.10	-							
	17	920	85.22	14100	1.20	-							
	19	820	75.20*	13800	1.30	-							
	21	735	66.67	13500	1.40	-							
	23	795	63.03	12400	1.40	-							
	25	635	56.92	13100	1.50	-							
	26	685	53.87	12100	1.60	-		**S**	**77**	**EDRE**	**100M4**	69	602
	29	630	49.38	11900	1.75	-		**SF**	**77**	**EDRE**	**100M4**	79	603
	33	555	43.33	11700	2.00	-		**SA**	**77**	**EDRE**	**100M4**	69	604
	35	525	41.07	11500	2.1	-		**SAF**	**77**	**EDRE**	**100M4**	75	603
	40	460	35.94	11300	2.4	-							
	44	420	32.38	11000	2.6	-							
	50	370	28.41	10700	2.8	-							
	57	325	25.07	10400	3.0	-							
	62	305	22.89	9470	2.3	-							
	68	280	20.99	9320	2.5	-							
	39	450	36.85	7350	1.05	-							
	41	425	34.80*	7310	1.10	-							
	48	365	29.63	7170	1.30	-							
	53	335	26.93	7070	1.45	-							
	61	290	23.33	6910	1.65	-							
	70	270	20.37	6060	1.25	-		**S**	**67**	**EDRE**	**100M4**	49	597
	82	230	17.28*	5950	1.50	-		**SF**	**67**	**EDRE**	**100M4**	56	598
	91	205	15.60*	5870	1.65	-		**SA**	**67**	**EDRE**	**100M4**	50	599
	104	184	13.73*	5760	1.85	-		**SAF**	**67**	**EDRE**	**100M4**	55	598
	110	174	12.96*	5700	1.95	-							
	129	149	11.03	5540	2.3	-							
	142	136	10.03	5440	2.5	-							
	164	118	8.69	5280	2.8	-							
	118	160	12.10*	4570	1.05	-							
	132	144	10.80*	4520	1.20	-							
	154	123	9.23*	4420	1.35	-							
	165	116	8.64*	4370	1.45	-		**S**	**57**	**EDRE**	**100M4**	38	592
	196	98	7.28	4240	1.50	-		**SF**	**57**	**EDRE**	**100M4**	42	593
	223	87	6.40*	4090	1.15	-		**SA**	**57**	**EDRE**	**100M4**	38	594
	264	73	5.39	3960	1.30	-		**SAF**	**57**	**EDRE**	**100M4**	41	593
	299	65	4.76	3850	1.45	-							
	356	55	4.00*	3710	1.60	-							
3.0	**5.8**	4020	252	33100	1.05	-		**S**	**97R57**	**EDRE**	**100LC4**	195	617
	6.6	3510	219	34100	1.20	-	X	**SF**	**97R57**	**EDRE**	**100LC4**	225	617
	7.1	3300	205	34500	1.25	-		**SA**	**97R57**	**EDRE**	**100LC4**	190	617
								SAF	**97R57**	**EDRE**	**100LC4**	215	617

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
3.0	**5.6**	3820	262.22	33600	1.05	-							
	6.3	3410	231.67	34300	1.15	-	X						
	7.4	2920	196.52	35100	1.35	-							
	8.0	2710	180.95	35400	1.45	-	X						
	9.0	2440	161.74	35700	1.55	-		**S**	**97**	**EDRE**	**100LC4**	170	612
	10.0	2210	145.60*	36000	1.70	-		**SF**	**97**	**EDRE**	**100LC4**	200	613
	11	2010	131.85	36200	1.80	-		**SA**	**97**	**EDRE**	**100LC4**	165	614
	12	1800	116.92	36300	1.95	-		**SAF**	**97**	**EDRE**	**100LC4**	190	613
	14	1630	105.71	36500	2.1	-							
	16	1390	89.60*	36700	2.3	-							
	18	1410	80.85	36600	2.3	-							
	12	1830	123.48	28700	1.05	-							
	13	1650	110.40*	29000	1.15	-							
	15	1490	99.26	29200	1.25	-							
	17	1310	86.15	29400	1.45	-							
	18	1400	81.76	29300	1.15	-							
	19	1180	77.14	29500	1.55	-		**S**	**87**	**EDRE**	**100LC4**	110	607
	21	1210	70.43	29500	1.30	-		**SF**	**87**	**EDRE**	**100LC4**	130	608
	23	1110	64.27	29600	1.45	-		**SA**	**87**	**EDRE**	**100LC4**	110	609
	26	990	57.00*	29700	1.60	-		**SAF**	**87**	**EDRE**	**100LC4**	125	608
	30	830	47.91	29800	1.90	-							
	33	770	44.03	29900	2.1	-							
	37	685	39.10	29900	2.3	-							
	42	615	34.96*	29900	2.6	-							
	22	980	66.67	12300	1.05	M1-6							
	23	1060	63.03	10900	1.05	-							
	26	850	56.92	12000	1.15	M1-6							
	27	910	53.87	10800	1.20	-							
	29	840	49.38	10800	1.30	-							
	34	740	43.33	10600	1.50	-							
	35	705	41.07	10600	1.55	-							
	40	620	35.94	10400	1.75	-							
	45	560	32.38	10200	1.90	-		**S**	**77**	**EDRE**	**100LC4**	74	602
	51	490	28.41	10000	2.1	-		**SF**	**77**	**EDRE**	**100LC4**	84	603
	58	435	25.07	9770	2.3	-		**SA**	**77**	**EDRE**	**100LC4**	74	604
	64	410	22.89	8640	1.70	-		**SAF**	**77**	**EDRE**	**100LC4**	80	603
	69	375	20.99	8550	1.85	-							
	79	330	18.42	8400	2.1	-							
	83	315	17.45	8340	2.2	-							
	95	275	15.28	8160	2.6	-							
	106	250	13.76	8010	2.8	-							
	121	220	12.07	7810	3.3	-							
	137	195	10.65	7610	3.7	-							
	54	445	26.93	6320	1.05	-							
	62	390	23.33	6250	1.25	-							
	84	305	17.28*	5250	1.10	-							
	93	275	15.60*	5230	1.20	-		**S**	**67**	**EDRE**	**100LC4**	54	597
	106	245	13.73*	5190	1.40	-		**SF**	**67**	**EDRE**	**100LC4**	61	598
	112	230	12.96*	5170	1.45	-		**SA**	**67**	**EDRE**	**100LC4**	55	599
	132	199	11.03	5080	1.70	-		**SAF**	**67**	**EDRE**	**100LC4**	60	598
	145	181	10.03	5020	1.90	-							
	167	157	8.69	4910	2.1	-							
	192	137	7.56*	4800	2.2	-							
	158	164	9.23*	3960	1.05	-							
	168	154	8.64*	3950	1.10	-		**S**	**57**	**EDRE**	**100LC4**	43	592
	200	130	7.28	3880	1.10	-		**SF**	**57**	**EDRE**	**100LC4**	47	593
	306	87	4.76	3600	1.05	-		**SA**	**57**	**EDRE**	**100LC4**	43	594
	364	73	4.00*	3480	1.20	-		**SAF**	**57**	**EDRE**	**100LC4**	46	593

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
4.0	**7.4**	3890	196.52	33400	1.00	-							
	8.1	3600	180.95	34000	1.10	-							
	9.0	3240	161.74	34600	1.15	-							
	10	2940	145.60*	35000	1.25	-							
	11	2680	131.85	35400	1.35	-	**S**	**97**	**EDRE**	**132S4**	180	612
	12	2390	116.92	35800	1.45	-	**SF**	**97**	**EDRE**	**132S4**	215	613
	14	2170	105.71	36000	1.55	-	**SA**	**97**	**EDRE**	**132S4**	175	614
	16	1850	89.60*	36300	1.75	-	**SAF**	**97**	**EDRE**	**132S4**	205	613
	18	1880	80.85	36300	1.70	-						
	20	1670	71.43	36400	1.95	-						
	24	1420	60.59	36600	2.3	-						
	26	1310	55.79	36700	2.5	-						
	17	1740	86.15	28800	1.10	-						
	19	1570	77.14	29100	1.15	-						
	23	1480	64.27	29200	1.10	-						
	26	1310	57.00*	29400	1.20	-						
	30	1110	47.91	29600	1.45	-	**S**	**87**	**EDRE**	**132S4**	125	607
	33	1020	44.03	29700	1.55	-	**SF**	**87**	**EDRE**	**132S4**	145	608
	37	910	39.10	29700	1.75	-	**SA**	**87**	**EDRE**	**132S4**	120	609
	42	820	34.96*	29700	1.95	-	**SAF**	**87**	**EDRE**	**132S4**	140	608
	46	740	31.43	28900	2.2	-						
	54	645	27.28	28000	2.5	-						
	57	615	25.50*	26400	2.0	-						
	34	980	43.33	9370	1.10	-						
	36	930	41.07	9370	1.15	-						
	41	820	35.94	9330	1.35	-						
	45	745	32.38	9270	1.45	-						
	51	655	28.41	9160	1.60	-						
	58	580	25.07	9040	1.70	-						
	64	545	22.89	7650	1.30	-	**S**	**77**	**EDRE**	**132S4**	88	602
	70	500	20.99	7640	1.40	-	**SF**	**77**	**EDRE**	**132S4**	97	603
	79	440	18.42	7600	1.60	-	**SA**	**77**	**EDRE**	**132S4**	87	604
	84	420	17.45	7580	1.70	-	**SAF**	**77**	**EDRE**	**132S4**	94	603
	96	365	15.28	7490	1.90	-						
	106	330	13.76	7400	2.1	-						
	121	290	12.07	7280	2.4	-						
	137	255	10.65	7140	2.8	-						
	155	230	9.44	6990	3.2	-						
	181	197	8.06	6790	3.4	-						
	106	325	13.73*	4510	1.05	-						
	113	305	12.96*	4520	1.10	-	**S**	**67**	**EDRE**	**132S4**	110	597
	132	260	11.03	4530	1.30	-	**SF**	**67**	**EDRE**	**132S4**	115	598
	146	240	10.03	4520	1.40	-	**SA**	**67**	**EDRE**	**132S4**	110	599
	168	205	8.69	4480	1.60	-	**SAF**	**67**	**EDRE**	**132S4**	115	598
	193	182	7.56*	4420	1.60	-						
5.5	**12**	3300	116.92	34500	1.05	-						
	14	3000	105.71	35000	1.15	-						
	16	2560	89.60*	35500	1.25	-						
	19	2250	78.26	35900	1.35	-						
	20	2300	71.43	35800	1.45	-	**S**	**97**	**EDRE**	**132M4**	195	612
	22	1900	65.45	36300	1.50	-	**SF**	**97**	**EDRE**	**132M4**	225	613
	24	1960	60.59	36200	1.70	-	**SA**	**97**	**EDRE**	**132M4**	190	614
	26	1810	55.79	36300	1.80	-	**SAF**	**97**	**EDRE**	**132M4**	215	613
	29	1620	49.87	36500	2.0	-						
	32	1470	44.89	36600	2.2	-						
	36	1330	40.65	36700	2.5	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
5.5	**30**	1530	47.91	29100	1.05	-							
	33	1410	44.03	29200	1.15	-							
	37	1260	39.10	29100	1.25	-							
	42	1130	34.96*	28500	1.40	-							
	46	1020	31.43	27900	1.55	-							
	53	890	27.28	27100	1.80	-	**S**	**87**	**EDRE**	**132M4**	135	607
	57	850	25.50*	25200	1.45	-	**SF**	**87**	**EDRE**	**132M4**	160	608
	68	715	21.43	24400	1.70	-	**SA**	**87**	**EDRE**	**132M4**	135	609
	74	660	19.70	24000	1.85	-	**SAF**	**87**	**EDRE**	**132M4**	150	608
	83	585	17.49	23400	2.1	-						
	93	525	15.64*	22900	2.4	-						
	103	475	14.06	22400	2.6	-						
	119	410	12.21	21700	3.0	-						
	133	370	10.93	21100	3.3	-						
	45	1020	32.38	7860	1.05	-						
	51	900	28.41	7920	1.15	-						
	58	800	25.07	7940	1.25	-						
	65	710	22.22	7920	1.35	-						
	79	610	18.42	6000	1.15	-	**S**	**77**	**EDRE**	**132M4**	100	602
	83	580	17.45	6240	1.20	-	**SF**	**77**	**EDRE**	**132M4**	110	603
	95	505	15.28	6500	1.40	-	**SA**	**77**	**EDRE**	**132M4**	99	604
	106	460	13.76	6510	1.55	-	**SAF**	**77**	**EDRE**	**132M4**	105	603
	121	400	12.07	6490	1.80	-						
	137	355	10.65	6440	2.0	-						
	154	315	9.44	6380	2.3	-						
	180	270	8.06	6260	2.5	-						
	145	330	10.03	3310	1.00	-	**S**	**67**	**EDRE**	**132M4**	120	597
	167	285	8.69	3720	1.15	-	**SF**	**67**	**EDRE**	**132M4**	125	598
	192	250	7.56*	3850	1.15	-	**SA**	**67**	**EDRE**	**132M4**	120	599
							SAF	**67**	**EDRE**	**132M4**	125	598
7.5	**19**	3060	78.26	34900	1.00	M1-6							
	20	3130	71.43	34700	1.05	-							
	22	2580	65.45	35500	1.10	M1-6							
	24	2670	60.59	35400	1.25	-							
	26	2460	55.79	35700	1.35	-							
	29	2210	49.87	35900	1.50	-	**S**	**97**	**EDRE**	**160S4**	210	612
	33	1990	44.89	36200	1.65	-	**SF**	**97**	**EDRE**	**160S4**	245	613
	36	1810	40.65	36300	1.80	-	**SA**	**97**	**EDRE**	**160S4**	205	614
	40	1610	36.05	36100	2.0	-	**SAF**	**97**	**EDRE**	**160S4**	230	613
	45	1460	32.60	35300	2.2	-						
	55	1210	26.39	31900	2.1	-						
	62	1080	23.59	31200	2.4	-						
	69	980	21.23	30600	2.6	-						
	76	890	19.23	30000	2.9	-						
	42	1540	34.96*	26900	1.05	-						
	46	1380	31.43	26400	1.15	-						
	54	1200	27.28	25800	1.30	-						
	57	1150	25.50*	23400	1.05	-						
	68	970	21.43	22900	1.25	-						
	74	890	19.70	22700	1.40	-	**S**	**87**	**EDRE**	**160S4**	150	607
	83	800	17.49	22300	1.55	-	**SF**	**87**	**EDRE**	**160S4**	175	608
	93	715	15.64*	21800	1.75	-	**SA**	**87**	**EDRE**	**160S4**	150	609
	104	645	14.06	21400	1.90	-	**SAF**	**87**	**EDRE**	**160S4**	165	608
	120	560	12.21	20800	2.2	-						
	134	500	10.93	20400	2.5	-						
	161	415	9.07	19600	2.7	-						
	185	365	7.88	19000	2.8	-						

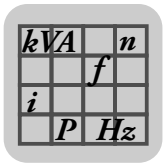
P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
7.5	**66**	970	22.22	6620	1.00	M2							
	96	690	15.28	3380	1.00	-							
	106	625	13.76	4000	1.15	-	**S**	**77**	**EDRE**	**160S4**	115	602
	121	550	12.07	4660	1.30	-	**SF**	**77**	**EDRE**	**160S4**	125	603
	137	485	10.65	5180	1.50	-	**SA**	**77**	**EDRE**	**160S4**	115	604
	155	430	9.44	5550	1.70	-	**SAF**	**77**	**EDRE**	**160S4**	120	603
	181	365	8.06	5560	1.85	-						
9.2	**26**	3000	55.79	34900	1.10	-						
	29	2690	49.87	35400	1.20	-						
	33	2430	44.89	35700	1.35	-						
	36	2210	40.65	35600	1.50	-						
	41	1960	36.05	34900	1.65	-						
	45	1780	32.60	34200	1.75	-	**S**	**97**	**EDRE**	**160M4**	220	612
	56	1480	26.39	30600	1.75	-	**SF**	**97**	**EDRE**	**160M4**	250	613
	62	1320	23.59	30100	1.95	-	**SA**	**97**	**EDRE**	**160M4**	215	614
	69	1190	21.23	29600	2.2	-	**SAF**	**97**	**EDRE**	**160M4**	240	613
	76	1080	19.23	29000	2.4	-						
	86	960	17.05	28400	2.6	-						
	95	870	15.42	27800	2.8	-						
	112	740	13.07	26900	3.1	-						
	129	645	11.41	26100	3.4	-						
	54	1470	27.28	24700	1.10	-						
	60	1320	24.43	24300	1.20	-						
	73	1100	20.27	23600	1.45	-						
	75	1090	19.70	21500	1.15	-						
	84	970	17.49	21200	1.25	-	**S**	**87**	**EDRE**	**160M4**	160	607
	94	870	15.64*	20900	1.40	-	**SF**	**87**	**EDRE**	**160M4**	180	608
	105	785	14.06	20600	1.60	-	**SA**	**87**	**EDRE**	**160M4**	160	609
	120	680	12.21	20100	1.80	-	**SAF**	**87**	**EDRE**	**160M4**	175	608
	135	610	10.93	19700	2.0	-						
	162	510	9.07	19000	2.2	-						
	186	440	7.88	18500	2.3	-						
	122	670	12.07	2430	1.05	-	**S**	**77**	**EDRE**	**160M4**	125	602
	138	590	10.65	3170	1.20	-	**SF**	**77**	**EDRE**	**160M4**	135	603
	156	525	9.44	3780	1.40	-	**SA**	**77**	**EDRE**	**160M4**	125	604
	182	450	8.06	4440	1.50	-	**SAF**	**77**	**EDRE**	**160M4**	130	603
11.0	**29**	3220	49.87	34600	1.00	-						
	33	2910	44.89	34700	1.15	-						
	36	2640	40.65	34300	1.25	-						
	41	2350	36.05	33700	1.40	-						
	45	2120	32.60	33100	1.50	-						
	56	1770	26.39	29300	1.45	-	**S**	**97**	**EDRE**	**180S4**	250	612
	62	1580	23.59	28900	1.65	-	**SF**	**97**	**EDRE**	**180S4**	285	613
	69	1430	21.23	28500	1.80	-	**SA**	**97**	**EDRE**	**180S4**	245	614
	76	1290	19.23	28100	2.0	-	**SAF**	**97**	**EDRE**	**180S4**	275	613
	86	1150	17.05	27500	2.2	-						
	95	1040	15.42	27100	2.4	-						
	112	880	13.07	26200	2.6	-						
	129	775	11.41	25500	2.8	-						
	60	1580	24.43	23300	1.00	-						
	73	1310	20.27	22800	1.20	-						
	84	1160	17.49	20200	1.05	-						
	94	1040	15.64*	20000	1.20	-	**S**	**87**	**EDRE**	**180S4**	195	607
	105	940	14.06	19700	1.30	-	**SF**	**87**	**EDRE**	**180S4**	215	608
	120	810	12.21	19400	1.50	-	**SA**	**87**	**EDRE**	**180S4**	190	609
	135	730	10.93	19100	1.70	-	**SAF**	**87**	**EDRE**	**180S4**	205	608
	162	610	9.07	18500	1.85	-						
	186	530	7.88	18000	1.90	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
15.0	**41**	3200	36.05	31000	1.00	-							
	45	2900	32.60	30700	1.10	-							
	56	2410	26.39	26400	1.10	-							
	62	2160	23.59	26300	1.20	-							
	69	1950	21.23	26200	1.35	-	**S**	**97**	**EDRE**	**180M4**	270	612
	76	1770	19.23	26000	1.45	-	**SF**	**97**	**EDRE**	**180M4**	300	613
	86	1570	17.05	25700	1.60	-	**SA**	**97**	**EDRE**	**180M4**	265	614
	95	1420	15.42	25400	1.70	-	**SAF**	**97**	**EDRE**	**180M4**	290	613
	112	1200	13.07	24800	1.90	-						
	129	1050	11.41	24300	2.1	-						
	154	880	9.55	23500	2.3	-						
	178	765	8.26	22900	2.3	-						
	120	1110	12.21	17800	1.10	-	**S**	**87**	**EDRE**	**180M4**	210	607
	135	1000	10.93	17600	1.25	-	**SF**	**87**	**EDRE**	**180M4**	230	608
	162	830	9.07	17300	1.35	-	**SA**	**87**	**EDRE**	**180M4**	210	609
	186	725	7.88	17000	1.40	-	**SAF**	**87**	**EDRE**	**180M4**	225	608
18.5	**61**	2650	24.13	28000	1.05	-						
	69	2390	21.23	24100	1.10	-						
	77	2170	19.23	24100	1.20	-						
	86	1930	17.05	24000	1.30	-	**S**	**97**	**EDRE**	**180L4**	280	612
	96	1740	15.42	23900	1.40	-	**SF**	**97**	**EDRE**	**180L4**	315	613
	113	1480	13.07	23500	1.55	-	**SA**	**97**	**EDRE**	**180L4**	275	614
	129	1290	11.41	23200	1.70	-	**SAF**	**97**	**EDRE**	**180L4**	300	613
	155	1080	9.55	22600	1.85	-						
	178	940	8.26	22100	1.90	-						
22	**77**	2570	19.23	20600	1.00	-						
	87	2290	17.05	22400	1.10	-						
	96	2070	15.42	22400	1.20	-	**S**	**97**	**EDRE**	**200L4**	385	612
	113	1760	13.07	22200	1.30	-	**SF**	**97**	**EDRE**	**200L4**	415	613
	130	1540	11.41	22000	1.40	-	**SA**	**97**	**EDRE**	**200L4**	380	614
	155	1290	9.55	21700	1.55	-	**SAF**	**97**	**EDRE**	**200L4**	405	613
	179	1110	8.26	21300	1.60	-						

8.5 Selection tables for SPIROPLAN® gearmotors /2GD T3

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.12	**5.2**	107	267	3370	1.05	-							
	5.9	94	233	3560	1.15	-	X						
	6.7	81	207	3720	1.35	-	X						
	7.5	73	184	3800	1.50	-	X						
	8.6	68	160	3850	1.60	-	X						
	9.8	60	141	3910	1.80	-	X	**W**	**37R17**	**EDR**	**63S4**	13	634
	11	54	125	3960	2.0	-	X	**WF**	**37R17**	**EDR**	**63S4**	13	634
	13	48	109	4000	2.3	-	X	**WA**	**37R17**	**EDR**	**63S4**	13	634
	14	43	96	4030	2.6	-	X	**WAF**	**37R17**	**EDR**	**63S4**	13	634
	17	37	82	4060	3.0	-	X						
	19	38	73	4050	2.3	-	X						
	22	34	63	4070	2.6	-							
	26	29	53	4090	3.1	-							
	29	27	48	4100	3.3	-							
	20	39	69.05	4050	2.8	-							
	22	36	63.33	4060	3.1	-							
	26	31	53.92	4080	3.5	-		**W**	**37**	**EDR**	**63S4**	10	625
	30	27	46.49	4100	4.0	-		**WF**	**37**	**EDR**	**63S4**	10	626
	36	23	37.88	4110	4.8	-		**WA**	**37**	**EDR**	**63S4**	10	628
	40	24	34.52	4110	3.8	-		**WAF**	**37**	**EDR**	**63S4**	10	626
	44	22	31.67	4120	4.1	-							
	18	28	75.00*	3000	2.5	-							
	23	26	60.00*	3000	2.7	-		**W**	**30**	**EDR**	**63S4**	9.0	621
	29	22	48.00*	3000	3.1	-		**WF**	**30**	**EDR**	**63S4**	9.4	622
	35	20	39.00*	3000	3.4	-		**WA**	**30**	**EDR**	**63S4**	8.8	624
	42	17	32.50*	3000	4.1	-		**WAF**	**30**	**EDR**	**63S4**	9.1	623
	50	16	27.50*	3000	4.4	-							
	18	25	75.00*	2200	1.60	-							
	23	22	60.00*	2200	1.80	-							
	29	20	48.00*	2200	1.95	-							
	35	18	39.00*	2200	2.2	-							
	42	18	32.50*	2200	2.2	-							
	50	15	27.50*	2200	2.6	-		**W**	**20**	**EDR**	**63S4**	6.6	618
	56	14	24.50*	2200	2.9	-		**WF**	**20**	**EDR**	**63S4**	6.8	619
	71	12	19.50*	2200	2.9	-		**WA**	**20**	**EDR**	**63S4**	6.3	620
	84	10	16.50*	2200	2.9	-		**WAF**	**20**	**EDR**	**63S4**	6.3	619
	96	9.5	14.33	2200	3.2	-							
	135	7.2	10.25*	2190	3.5	-							
	168	5.9	8.20*	2020	3.4	-							
	210	4.9	6.57	1890	4.1	-							
0.18	**4.9**	190	270	6330	1.00	-							
	5.6	176	237	6430	1.10	-							
	6.4	154	210	6570	1.10	-							
	7.3	134	183	6690	1.50	-	X						
	8.4	120	159	6770	1.60	-	X						
	9.4	107	141	6850	1.75	-	X	**W**	**47R17**	**EDR**	**63M4**	18	634
	11	112	124	6910	1.65	-		**WF**	**47R17**	**EDR**	**63M4**	19	634
	11	92	120	6940	2.1	-		**WA**	**47R17**	**EDR**	**63M4**	17	634
	13	95	105	6990	1.95	-		**WAF**	**47R17**	**EDR**	**63M4**	18	634
	14	89	95	7020	2.1	-							
	16	78	85	7070	2.2	-							
	17	73	77	7100	2.5	-							
	19	66	72	7130	2.6	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.18	**8.3**	109	160	3340	1.00	-								
	9.4	98	141	3510	1.15	-								
	11	87	125	3650	1.25	-	X							
	12	78	109	3750	1.40	-	X	**W**	**37R17**	**EDR**	**63M4**		13	634
	14	70	96	3830	1.55	-	X	**WF**	**37R17**	**EDR**	**63M4**		13	634
	16	60	82	3920	1.80	-	X	**WA**	**37R17**	**EDR**	**63M4**		13	634
	18	63	73	3890	1.45	-	X	**WAF**	**37R17**	**EDR**	**63M4**		13	634
	21	56	63	3950	1.60	-	X							
	25	48	53	4000	1.90	-								
	28	44	48	4020	2.0	-								
	18	69	74.98	7060	2.6	-								
	19	64	68.93	7090	2.8	-								
	23	56	58.98	7130	3.2	-		**W**	**47**	**EDR**	**63M4**		16	630
	26	49	51.12	7170	3.7	-		**WF**	**47**	**EDR**	**63M4**		16	631
	28	46	47.78	7180	3.9	-		**WA**	**47**	**EDR**	**63M4**		14	632
	32	40	41.30	7210	4.4	-		**WAF**	**47**	**EDR**	**63M4**		15	631
	42	34	31.62	7000	4.6	-								
	19	60	69.05	3920	1.85	-	X							
	21	55	63.33	3950	2.00	-	X							
	25	48	53.92	4000	2.3	-								
	29	42	46.49	4030	2.6	-								
	35	35	37.88	4070	3.1	-		**W**	**37**	**EDR**	**63M4**		10	625
	39	36	34.52	4060	2.5	-		**WF**	**37**	**EDR**	**63M4**		10	626
	42	34	31.67	4070	2.7	-		**WA**	**37**	**EDR**	**63M4**		10	628
	48	27	27.78	4100	4.1	-		**WAF**	**37**	**EDR**	**63M4**		10	626
	50	29	26.96	4090	3.1	-								
	57	25	23.25	4100	3.6	-								
	63	21	21.33	4120	5.1	-								
	70	21	18.94	4120	4.3	-								
	18	43	75.00*	3000	1.60	-								
	22	40	60.00*	3000	1.75	-								
	28	35	48.00*	3000	2.0	-								
	34	32	39.00*	3000	2.2	-								
	41	26	32.50*	3000	2.6	-								
	49	25	27.50*	3000	2.8	-		**W**	**30**	**EDR**	**63M4**		9.0	621
	54	23	24.50*	3000	3.0	-		**WF**	**30**	**EDR**	**63M4**		9.4	622
	68	20	19.50*	3000	3.6	-		**WA**	**30**	**EDR**	**63M4**		8.8	624
	82	17	16.33	3000	3.6	-		**WAF**	**30**	**EDR**	**63M4**		9.1	623
	93	15	14.33	3000	4.0	-								
	130	11	10.25*	3000	4.4	-								
	163	9.4	8.20*	3000	4.3	-								
	203	7.9	6.57	2970	5.1	-								
	18	39	75.00*	2200	1.05	-								
	22	34	60.00*	2200	1.15	-								
	28	31	48.00*	2200	1.30	-								
	34	29	39.00*	2200	1.40	-								
	41	28	32.50*	2200	1.40	-								
	49	24	27.50*	2200	1.70	-		**W**	**20**	**EDR**	**63M4**		6.6	618
	54	21	24.50*	2200	1.85	-		**WF**	**20**	**EDR**	**63M4**		6.8	619
	68	18	19.50*	2200	1.90	-		**WA**	**20**	**EDR**	**63M4**		6.3	620
	81	16	16.50*	2200	1.90	-		**WAF**	**20**	**EDR**	**63M4**		6.3	619
	93	15	14.33	2200	2.0	-								
	130	11	10.25*	2190	2.2	-								
	163	9.1	8.20*	2000	2.2	-								
	203	7.7	6.57	1890	2.6	-								



P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.25	**7.7**	182	183	6390	1.10	-							
	8.8	163	159	6510	1.15	-	X						
	9.9	145	141	6620	1.30	-	X						
	11	152	124	6700	1.25	-		**W**	**47R17**	**EDRS**	**71S4**	21	634
	12	125	120	6750	1.50	-	X	**WF**	**47R17**	**EDRS**	**71S4**	21	634
	13	128	105	6820	1.45	-		**WA**	**47R17**	**EDRS**	**71S4**	19	634
	15	120	95	6870	1.55	-		**WAF**	**47R17**	**EDRS**	**71S4**	20	634
	17	106	85	6940	1.65	-							
	18	98	77	6980	1.90	-							
	19	90	72	7020	1.95	-							
	13	106	109	3390	1.05	-							
	15	95	96	3550	1.15	-							
	17	82	82	3710	1.35	-	X	**W**	**37R17**	**EDRS**	**71S4**	15	634
	19	86	73	3670	1.05	-		**WF**	**37R17**	**EDRS**	**71S4**	15	634
	22	76	63	3780	1.20	-	X	**WA**	**37R17**	**EDRS**	**71S4**	15	634
	26	64	53	3880	1.40	-	X	**WAF**	**37R17**	**EDRS**	**71S4**	15	634
	29	59	48	3920	1.50	-							
	19	92	74.98	6940	1.95	-							
	20	85	68.93	6970	2.1	-		**W**	**47**	**EDRS**	**71S4**	19	630
	24	74	58.98	7030	2.4	-		**WF**	**47**	**EDRS**	**71S4**	20	631
	27	65	51.12	7080	2.8	-		**WA**	**47**	**EDRS**	**71S4**	18	632
	29	61	47.78	7100	2.9	-		**WAF**	**47**	**EDRS**	**71S4**	19	631
	20	79	69.05	3740	1.40	-	X						
	22	73	63.33	3800	1.50	-	X						
	26	64	53.92	3890	1.70	-	X						
	30	56	46.49	3950	1.95	-							
	37	47	37.88	4010	2.4	-							
	41	48	34.52	4000	1.85	-							
	44	45	31.67	4020	2.0	-							
	51	35	27.78	4070	3.1	-		**W**	**37**	**EDRS**	**71S4**	13	625
	52	38	26.96	4050	2.3	-		**WF**	**37**	**EDRS**	**71S4**	13	626
	60	34	23.25	4080	2.7	-		**WA**	**37**	**EDRS**	**71S4**	13	628
	66	28	21.33	4100	3.8	-		**WAF**	**37**	**EDRS**	**71S4**	13	626
	74	28	18.94	4100	3.3	-							
	90	23	15.67	4110	3.9	-							
	101	21	13.89	4120	4.4	-							
	111	20	12.70	4120	3.5	-							
	121	18	11.65	4020	3.8	-							
	132	16	10.67	3820	5.6	-							
	142	16	9.92	3830	4.5	-							
	19	58	75.00*	3000	1.20	-							
	23	53	60.00*	3000	1.30	-							
	29	46	48.00*	3000	1.50	-							
	36	42	39.00*	3000	1.65	-							
	43	35	32.50*	3000	2.00	-							
	51	33	27.50*	3000	2.1	-		**W**	**30**	**EDRS**	**71S4**	12	621
	57	30	24.50*	3000	2.3	-		**WF**	**30**	**EDRS**	**71S4**	12	622
	72	26	19.50*	3000	2.7	-		**WA**	**30**	**EDRS**	**71S4**	11	624
	86	22	16.33	3000	2.7	-		**WAF**	**30**	**EDRS**	**71S4**	12	623
	98	20	14.33	3000	3.0	-							
	137	15	10.25*	3000	3.3	-							
	171	12	8.20*	3000	3.2	-							
	214	10	6.57	2900	3.8	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.25	**36**	38	39.00*	2200	1.05	-								
	43	37	32.50*	2200	1.10	-								
	51	31	27.50*	2200	1.30	-								
	57	28	24.50*	2200	1.40	-		**W**	**20**		**EDRS**	**71S4**	9.1	618
	72	24	19.50*	2200	1.45	-		**WF**	**20**		**EDRS**	**71S4**	9.2	619
	85	21	16.50*	2200	1.40	-		**WA**	**20**		**EDRS**	**71S4**	8.8	620
	98	20	14.33	2200	1.55	-		**WAF**	**20**		**EDRS**	**71S4**	8.8	619
	137	15	10.25*	2120	1.70	-								
	171	12	8.20*	1930	1.65	-								
	214	10	6.57	1830	2.00	-								
0.37	**15**	183	95	6520	1.00	-		**W**	**47R17**		**EDRS**	**71M4**	22	634
	16	163	85	6640	1.05	-		**WF**	**47R17**		**EDRS**	**71M4**	23	634
	18	151	77	6700	1.20	-		**WA**	**47R17**		**EDRS**	**71M4**	21	634
	19	139	72	6770	1.25	-		**WAF**	**47R17**		**EDRS**	**71M4**	22	634
	18	138	74.98	6660	1.30	-								
	20	128	68.93	6720	1.40	-								
	23	112	58.98	6820	1.60	-								
	27	98	51.12	6900	1.85	-								
	29	92	47.78	6930	1.95	-								
	33	81	41.30	6940	2.2	-								
	39	70	35.09	6660	2.6	-								
	43	69	31.62	6560	2.3	-								
	44	63	31.33	6470	2.8	-		**W**	**47**		**EDRS**	**71M4**	22	630
	50	60	27.41	6320	2.7	-		**WF**	**47**		**EDRS**	**71M4**	22	631
	51	55	26.76	6200	3.3	-		**WA**	**47**		**EDRS**	**71M4**	20	632
	54	56	25.62	6200	2.8	-		**WAF**	**47**		**EDRS**	**71M4**	21	631
	55	52	25.07	6100	3.5	-								
	62	49	22.15	5960	3.2	-								
	73	42	18.82	5690	3.8	-								
	82	38	16.80	5500	4.2	-								
	96	33	14.35	5260	4.9	-								
	112	30	12.30	5120	3.7	-								
	129	26	10.66	4900	4.2	-								
	138	24	9.96	4800	4.5	-								
	26	96	53.92	3530	1.15	-								
	30	84	46.49	3680	1.30	-	X							
	36	70	37.88	3830	1.55	-	X							
	40	73	34.52	3800	1.25	-								
	43	67	31.67	3860	1.35	-								
	50	54	27.78	3960	2.1	-								
	51	58	26.96	3930	1.55	-								
	59	50	23.25	3980	1.80	-		**W**	**37**		**EDRS**	**71M4**	14	625
	64	42	21.33	4030	2.5	-		**WF**	**37**		**EDRS**	**71M4**	14	626
	73	42	18.94	4040	2.2	-		**WA**	**37**		**EDRS**	**71M4**	14	628
	88	35	15.67	4070	2.6	-		**WAF**	**37**		**EDRS**	**71M4**	14	626
	99	31	13.89	4030	2.9	-								
	108	30	12.70	4090	2.3	-								
	118	28	11.65	3990	2.6	-								
	129	24	10.67	3750	3.7	-								
	139	24	9.92	3800	3.0	-								
	161	20	8.55	3630	3.4	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.37	**29**	70	48.00*	3000	1.00	-								
	35	63	39.00*	3000	1.10	-								
	42	53	32.50*	3000	1.30	-								
	50	49	27.50*	3000	1.40	-								
	56	46	24.50*	3000	1.50	-		**W**	**30**	**EDRS**	**71M4**		13	621
	71	39	19.50*	3000	1.80	-		**WF**	**30**	**EDRS**	**71M4**		13	622
	84	34	16.33	3000	1.80	-		**WA**	**30**	**EDRS**	**71M4**		13	624
	96	30	14.33	3000	1.95	-		**WAF**	**30**	**EDRS**	**71M4**		13	623
	134	23	10.25*	3000	2.2	-								
	168	19	8.20*	3000	2.1	-								
	209	16	6.57	2870	2.6	-								
	96	30	14.33	2200	1.00	-		**W**	**20**	**EDRS**	**71M4**		10	618
	134	22	10.25*	2090	1.15	-		**WF**	**20**	**EDRS**	**71M4**		11	619
	168	18	8.20*	1870	1.10	-		**WA**	**20**	**EDRS**	**71M4**		10	620
	209	15	6.57	1800	1.30	-		**WAF**	**20**	**EDRS**	**71M4**		10	619
0.55	**24**	162	58.98	6520	1.10	-								
	28	142	51.12	6640	1.25	-								
	30	134	47.78	6590	1.35	-								
	34	118	41.30	6410	1.55	-		**W**	**47**	**EDRS**	**80S4**		23	630
	40	101	35.09	6200	1.80	-		**WF**	**47**	**EDRS**	**80S4**		23	631
	45	100	31.62	6170	1.60	-		**WA**	**47**	**EDRS**	**80S4**		21	632
	45	92	31.33	6040	1.95	-		**WAF**	**47**	**EDRS**	**80S4**		22	631
	52	87	27.41	5970	1.85	-								
	55	82	25.62	5870	1.95	-								
	37	102	37.88	3440	1.10	-								
	51	78	27.78	3760	1.40	-	X							
	52	84	26.96	3690	1.05	-								
	61	73	23.25	3800	1.25	-								
	66	61	21.33	3910	1.75	-								
	75	60	18.94	3920	1.50	-								
	90	50	15.67	3920	1.80	-		**W**	**37**	**EDRS**	**80S4**		17	625
	102	45	13.89	3810	2.0	-		**WF**	**37**	**EDRS**	**80S4**		17	626
	133	35	10.67	3570	2.6	-		**WA**	**37**	**EDRS**	**80S4**		17	628
	143	34	9.92	3690	2.1	-		**WAF**	**37**	**EDRS**	**80S4**		17	626
	165	29	8.55	3530	2.4	-								
	203	24	6.97	3320	2.9	-								
	245	20	5.77	3140	3.5	-								
	277	18	5.11	3020	4.0	-								
	360	14	3.93	2790	5.2	-								
	58	67	24.50*	3000	1.05	-								
	87	48	16.33	3000	1.25	-		**W**	**30**	**EDRS**	**80S4**		15	621
	99	44	14.33	3000	1.35	-		**WF**	**30**	**EDRS**	**80S4**		15	622
	138	33	10.25*	3000	1.50	-		**WA**	**30**	**EDRS**	**80S4**		15	624
	173	27	8.20*	2960	1.50	-		**WAF**	**30**	**EDRS**	**80S4**		15	623
	215	23	6.57	2780	1.75	-								
0.75	**30**	180	47.78	5970	1.00	-								
	35	158	41.30	5860	1.15	-								
	41	136	35.09	5720	1.30	-								
	45	134	31.62	5770	1.20	-								
	46	123	31.33	5610	1.45	-		**W**	**47**	**EDRE**	**80M4**		25	630
	52	117	27.41	5620	1.35	-		**WF**	**47**	**EDRE**	**80M4**		26	631
	54	107	26.76	5450	1.70	-		**WA**	**47**	**EDRE**	**80M4**		24	632
	56	110	25.62	5540	1.45	-		**WAF**	**47**	**EDRE**	**80M4**		25	631
	57	100	25.07	5380	1.80	-								
	65	96	22.15	5370	1.65	-								
	76	82	18.82	5180	1.95	-								
	117	58	12.30	4860	1.90	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.75	**52**	104	27.78	3410	1.05	-							
	67	82	21.33	3710	1.30	-							
	76	81	18.94	3720	1.10	-							
	92	68	15.67	3680	1.35	-							
	103	61	13.89	3590	1.50	-							
	135	47	10.67	3400	1.90	-	**W**	**37**	**EDRE**	**80M4**	19	625
	145	46	9.92	3590	1.55	-	**WF**	**37**	**EDRE**	**80M4**	19	626
	168	39	8.55	3450	1.80	-	**WA**	**37**	**EDRE**	**80M4**	19	628
	206	32	6.97	3250	2.2	-	**WAF**	**37**	**EDRE**	**80M4**	19	626
	249	27	5.77	3080	2.6	-						
	281	24	5.11	2970	2.9	-						
	366	18	3.93	2740	3.8	-						
	448	15	3.20*	2580	4.7	-						
	100	59	14.33	3000	1.00	-	**W**	**30**	**EDRE**	**80M4**	18	621
	140	44	10.25*	3000	1.10	-	**WF**	**30**	**EDRE**	**80M4**	18	622
	175	36	8.20*	2850	1.10	-	**WA**	**30**	**EDRE**	**80M4**	17	624
	218	31	6.57	2700	1.30	-	**WAF**	**30**	**EDRE**	**80M4**	18	623
1.1	**53**	158	26.76	4830	1.15	-							
	57	149	25.07	4800	1.20	-							
	64	142	22.15	4910	1.15	-							
	75	122	18.82	4780	1.30	-							
	85	109	16.80	4690	1.45	-	**W**	**47**	**EDRE**	**90M4**	29	630
	99	94	14.35	4550	1.70	-	**WF**	**47**	**EDRE**	**90M4**	30	631
	106	88	13.44	4490	1.80	-	**WA**	**47**	**EDRE**	**90M4**	28	632
	115	86	12.30	4690	1.30	-	**WAF**	**47**	**EDRE**	**90M4**	28	631
	133	75	10.66	4520	1.45	-						
	143	70	9.96	4440	1.55	-						
	165	61	8.61	4270	1.80	-						
	102	90	13.89	3230	1.00	-						
	133	70	10.67	3120	1.30	-						
	143	68	9.92	3460	1.05	-						
	166	58	8.55	3330	1.20	-	**W**	**37**	**EDRE**	**90M4**	23	625
	204	48	6.97	3160	1.45	-	**WF**	**37**	**EDRE**	**90M4**	23	626
	246	40	5.77	3000	1.75	-	**WA**	**37**	**EDRE**	**90M4**	23	628
	278	35	5.11	2900	2.00	-	**WAF**	**37**	**EDRE**	**90M4**	23	626
	362	27	3.93	2690	2.6	-						
	444	22	3.20*	2540	3.2	-						
1.5	**85**	148	16.80	4270	1.10	-							
	100	127	14.35	4190	1.25	-							
	106	120	13.44	4150	1.35	-							
	126	102	11.32	4040	1.60	-	**W**	**47**	**EDRE**	**90L4**	32	630
	134	101	10.66	4330	1.10	-	**WF**	**47**	**EDRE**	**90L4**	32	631
	144	95	9.96	4260	1.15	-	**WA**	**47**	**EDRE**	**90L4**	30	632
	166	82	8.61	4110	1.35	-	**WAF**	**47**	**EDRE**	**90L4**	31	631
	195	70	7.32	3950	1.55	-						
	219	63	6.53	3830	1.75	-						
	205	65	6.97	3030	1.10	-						
	248	54	5.77	2900	1.30	-	**W**	**37**	**EDRE**	**90L4**	26	625
	280	48	5.11	2810	1.45	-	**WF**	**37**	**EDRE**	**90L4**	26	626
	364	37	3.93	2620	1.90	-	**WA**	**37**	**EDRE**	**90L4**	26	628
	447	30	3.20*	2480	2.3	-	**WAF**	**37**	**EDRE**	**90L4**	26	626

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
2.2	**126**	149	11.32	3540	1.05	-								
	195	103	7.32	3730	1.05	-								
	218	92	6.53	3640	1.20	-	**W**	**47**		**EDRE**	**100M4**		37	630
	255	79	5.58	3510	1.40	-	**WF**	**47**		**EDRE**	**100M4**		37	631
	273	74	5.23	3460	1.50	-	**WA**	**47**		**EDRE**	**100M4**		35	632
	324	62	4.40	3310	1.75	-	**WAF**	**47**		**EDRE**	**100M4**		36	631
	366	55	3.89	3210	2.00	-								
	436	46	3.27	3070	2.4	-								
3.0	**261**	105	5.58	3300	1.05	-								
	278	99	5.23	3260	1.10	-	**W**	**47**		**EDRE**	**100LC4**		42	630
	330	83	4.40	3150	1.30	-	**WF**	**47**		**EDRE**	**100LC4**		42	631
	374	74	3.89	3060	1.50	-	**WA**	**47**		**EDRE**	**100LC4**		40	632
	445	62	3.27	2940	1.75	-	**WAF**	**47**		**EDRE**	**100LC4**		41	631

9 Category /3GD T3

9.1 Selection tables for helical gearmotors /3GD T3

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.12	**0.08**	11300	18210	65700	1.15	-							
	0.09	9920	15923	67900	1.30	-							
	0.10	8770	14075	69400	1.50	-							
	0.11	7640	12344	70700	1.70	-							
	0.12	6730	11143	71600	1.95	-	**R**	**147R77**	**DR**	**63S4**	420	472
	0.14	6030	9743	72200	2.2	-	**RF**	**147R77**	**DR**	**63S4**	430	472
	0.16	4830	8443	73100	2.7	-	**RM**	**147R77**	**DR**	**63S4**	600	472
	0.19	4180	7307	73400	3.1	-							
	0.21	3690	6447	73700	3.5	-							
	0.25	3180	5568	73900	4.1	-							
	0.12	7250	11712	54900	1.10	-							
	0.13	6390	10573	56400	1.25	-							
	0.16	5020	8784	58400	1.60	-	**R**	**137R77**	**DR**	**63S4**	290	472
	0.18	4090	7479	59400	1.95	-	**RF**	**137R77**	**DR**	**63S4**	310	472
	0.21	4060	6559	59400	1.95	-	**RM**	**137R77**	**DR**	**63S4**	425	472
	0.24	3190	5834	60200	2.5	-							
	0.27	3160	5116	60200	2.5	-							
	0.20	3690	6743	32400	1.15	-							
	0.23	3660	5914	32500	1.15	-							
	0.27	2820	5168	35500	1.50	-	**R**	**107R77**	**DR**	**63S4**	200	472
	0.31	2530	4435	36100	1.70	-	**RF**	**107R77**	**DR**	**63S4**	210	472
	0.35	2260	3896	36500	1.90	-	**RM**	**107R77**	**DR**	**63S4**	295	472
	0.45	1880	3039	36900	2.3	-							
	0.35	2470	3918	36200	1.75	-							
	0.41	2100	3343	36700	2.0	-							
	0.45	1910	3034	36900	2.2	-	**R**	**107R77**	**DR**	**63S4**	195	472
	0.52	1670	2653	37100	2.6	-	**RF**	**107R77**	**DR**	**63S4**	200	472
	0.61	1430	2280	37300	3.0	-	**RM**	**107R77**	**DR**	**63S4**	290	472
	0.67	1290	2067	37400	3.3	-							
	0.34	2560	4004	23700	1.15	-	**R**	**97R57**	**DR**	**63S4**	130	472
	0.40	2270	3481	25200	1.30	-	**RF**	**97R57**	**DR**	**63S4**	145	472
							RM	**97R57**	**DR**	**63S4**	195	472
	0.32	2980	4309	20400	1.00	-							
	0.37	2560	3702	23700	1.15	-							
	0.46	2080	3019	26100	1.45	-	**R**	**97R57**	**DR**	**63S4**	125	472
	0.52	1800	2668	27100	1.65	-	**RF**	**97R57**	**DR**	**63S4**	140	472
	0.61	1480	2245	27700	2.0	-	**RM**	**97R57**	**DR**	**63S4**	195	472
	0.68	1300	2016	27900	2.3	-							
	0.80	1190	1733	28000	2.5	-							
	0.45	2120	3065	25900	1.40	-							
	0.51	1880	2722	26800	1.60	-							
	0.60	1590	2311	27500	1.90	-							
	0.66	1430	2078	27700	2.1	-	**R**	**97R57**	**DR**	**63S4**	130	472
	0.76	1230	1823	28000	2.4	-	**RF**	**97R57**	**DR**	**63S4**	145	472
	0.87	1070	1583	28200	2.8	-	**RM**	**97R57**	**DR**	**63S4**	195	472
	0.99	900	1396	28300	3.3	-							
	1.1	770	1228	28400	3.9	-							
	0.70	1300	1961	18500	1.20	-	**R**	**87R57**	**DR**	**63S4**	86	472
							RF	**87R57**	**DR**	**63S4**	93	472
							RM	**87R57**	**DR**	**63S4**	125	472
	0.65	1430	2129	17700	1.10	-	**R**	**87R57**	**DR**	**63S4**	85	472
	0.72	1270	1930	18600	1.20	-	**RF**	**87R57**	**DR**	**63S4**	92	472
	0.80	1120	1733	19300	1.40	-	**RM**	**87R57**	**DR**	**63S4**	120	472

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.12	**0.79**	1140	1737	19200	1.35	-							
	0.91	1000	1524	19800	1.55	-							
	1.1	810	1303	20000	1.90	-							
	1.2	710	1143	20000	2.2	-	**R**	**87R57**	**DR**	**63S4**	85	472
	1.6	580	885	20000	2.6	-	**RF**	**87R57**	**DR**	**63S4**	92	472
	1.8	510	776	20000	3.0	-	**RM**	**87R57**	**DR**	**63S4**	120	472
	2.0	450	685	20000	3.4	-						
	2.3	360	599	20000	4.3	-						
	1.2	795	1124	10100	1.05	-	**R**	**77R37**	**DR**	**63S4**	45	472
	1.3	740	1047	10600	1.10	-	**RF**	**77R37**	**DR**	**63S4**	51	472
	1.5	635	915	11300	1.30	-	**RM**	**77R37**	**DR**	**63S4**	76	472
	1.1	820	1218	9910	1.00	-						
	1.3	740	1084	10600	1.10	-						
	1.5	660	940	11200	1.25	-	**R**	**77R37**	**DR**	**63S4**	46	472
	1.7	520	821	12000	1.55	-	**RF**	**77R37**	**DR**	**63S4**	52	472
	1.9	475	731	12200	1.70	-	**RM**	**77R37**	**DR**	**63S4**	77	472
	2.1	455	646	12300	1.80	-						
	2.6	375	520	12600	2.2	-						
	3.1	320	451	12700	2.5	-	**R**	**77R37**	**DR**	**63S4**	45	472
	3.3	300	422	12800	2.7	-	**RF**	**77R37**	**DR**	**63S4**	51	472
	3.8	255	365	12900	3.2	-	**RM**	**77R37**	**DR**	**63S4**	76	472
	1.9	505	730	8530	1.20	-						
	2.1	440	644	9060	1.35	-	**R**	**67R37**	**DR**	**63S4**	40	472
	2.4	385	571	9430	1.55	-	**RF**	**67R37**	**DR**	**63S4**	43	472
	2.8	320	486	9790	1.85	-	**RM**	**67R37**	**DR**	**63S4**	59	472
	1.6	590	836	7670	1.00	-						
	1.8	490	750	8630	1.20	-						
	2.1	440	646	9050	1.35	-	**R**	**67R37**	**DR**	**63S4**	41	472
	2.4	400	574	9330	1.50	-	**RF**	**67R37**	**DR**	**63S4**	44	472
	2.8	345	495	9660	1.75	-	**RM**	**67R37**	**DR**	**63S4**	60	472
	3.2	285	438	9940	2.1	-						
	2.3	410	604	7260	1.10	-						
	2.6	370	537	7400	1.20	-	**R**	**57R37**	**DR**	**63S4**	34	472
	2.9	325	471	7550	1.35	-	**RF**	**57R37**	**DR**	**63S4**	38	472
	3.9	240	357	7760	1.85	-	**RM**	**57R37**	**DR**	**63S4**	50	472
	4.3	215	319	7820	2.1	-						
	3.8	255	359	7730	1.75	-						
	4.3	230	324	7790	1.95	-						
	4.8	200	290	7840	2.2	-	**R**	**57R37**	**DR**	**63S4**	33	472
	5.3	185	262	7880	2.4	-	**RF**	**57R37**	**DR**	**63S4**	37	472
	5.6	170	246	7900	2.6	-	**RM**	**57R37**	**DR**	**63S4**	49	472
	6.3	150	220	7930	3.0	-						
	3.2	285	436	5480	1.05	-						
	3.4	265	408	5590	1.10	-	**R**	**47R37**	**DR**	**63S4**	28	472
	4.0	215	344	5780	1.35	-	**RF**	**47R37**	**DR**	**63S4**	28	472
	3.7	265	372	5580	1.10	-						
	4.0	245	348	5670	1.20	-						
	4.6	210	301	5810	1.40	-	**R**	**47R37**	**DR**	**63S4**	28	472
	5.4	177	255	5920	1.70	-	**RF**	**47R37**	**DR**	**63S4**	28	472
	6.0	156	228	5980	1.95	-						
	7.1	130	195	6040	2.3	-						
	5.3	184	259	5130	1.10	-						
	6.0	163	228	5360	1.25	-	**R**	**37R17**	**DR**	**63S4**	17	472
	6.9	140	199	5550	1.40	-	**RF**	**37R17**	**DR**	**63S4**	19	472
	8.0	122	172	5680	1.65	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.12	**5.2**	192	265	5040	1.05	-							
	6.1	156	226	5410	1.30	-	**R**	**37R17**	**DR**	**63S4**		17	472
	6.8	144	202	5520	1.40	-	**RF**	**37R17**	**DR**	**63S4**		18	472
	7.7	125	179	5660	1.60	-							
	7.8	121	177	4270	1.05	-	**R**	**27R17**	**DR**	**63S4**		11	472
	8.3	116	166	4290	1.10	-	**RF**	**27R17**	**DR**	**63S4**		11	472
	7.7	125	179	4260	1.05	-	**R**	**27R17**	**DR**	**63S4**		11	472
	8.8	106	156	4330	1.25	-	**RF**	**27R17**	**DR**	**63S4**		11	472
	7.1	162	195.24*	13000	5.1	-	**R**	**77**	**DR**	**63S4**		37	456
	8.3	138	166.59	13000	5.9	-	**RF**	**77**	**DR**	**63S4**		43	457
	9.5	121	145.67	13000	6.8	-	**RM**	**77**	**DR**	**63S4**		68	457
	6.9	166	199.81	10300	3.6	-							
	7.5	153	184.07	10400	3.9	-							
	8.7	131	158.14	10400	4.6	-	**R**	**67**	**DR**	**63S4**		30	453
	10	114	137.67	10500	5.2	-	**RF**	**67**	**DR**	**63S4**		33	454
	11	107	128.97	10500	5.6	-	**RM**	**67**	**DR**	**63S4**		49	454
	12	95	113.94	10500	6.3	-							
	7.4	155	186.89	7920	2.9	-							
	8.0	143	172.17	7940	3.2	-							
	9.3	123	147.92	7960	3.7	-	**R**	**57**	**DR**	**63S4**		23	450
	11	107	128.77	7980	4.2	-	**RF**	**57**	**DR**	**63S4**		27	451
	11	100	120.63	7980	4.5	-	**RM**	**57**	**DR**	**63S4**		39	451
	13	88	106.58	7990	5.1	-							
	14	82	98.99	8000	5.5	-							
	7.8	147	176.88	6000	2.0	-							
	8.5	135	162.94	6030	2.2	-							
	9.9	116	139.99	6070	2.6	-							
	11	101	121.87	6100	3.0	-	**R**	**47**	**DR**	**63S4**		18	447
	12	95	114.17	6100	3.2	-	**RF**	**47**	**DR**	**63S4**		18	448
	14	84	100.86	6120	3.6	-							
	15	78	93.68	6130	3.9	-							
	10	112	134.82	5750	1.80	-							
	11	103	123.66	5800	1.95	-							
	13	87	105.28	5880	2.3	-	**R**	**37**	**DR**	**63S4**		14	444
	15	75	90.77	5930	2.6	-	**RF**	**37**	**DR**	**63S4**		16	445
	16	70	84.61	5950	2.8	-							
	19	61	73.96	5980	3.3	-							
	10	112	135.09	4310	1.15	-							
	11	103	123.91	4340	1.25	-							
	13	88	105.49	4390	1.50	-							
	15	76	90.96	4420	1.70	-							
	16	70	84.78	4440	1.85	-							
	19	62	74.11	4460	2.1	-	**R**	**27**	**DR**	**63S4**		8.3	441
	20	58	69.47	4460	2.2	-	**RF**	**27**	**DR**	**63S4**		8.2	442
	23	51	61.30	4400	2.6	-							
	25	46	55.87	4280	2.8	-							
	29	40	48.17	4090	3.2	-							
	31	37	44.90	4000	3.5	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.12	**17**	68	81.64	2500	1.25	-							
	20	58	70.39	2500	1.45	-							
	21	54	65.61	2500	1.55	-							
	24	48	57.35	2500	1.80	-							
	26	45	53.76	2500	1.90	-							
	29	39	47.44	2500	2.2	-	**R**	**17**	**DR**	**63S4**		7.6	438
	31	37	44.18	2500	2.3	-	**RF**	**17**	**DR**	**63S4**		7.5	439
	36	32	38.61	2430	2.6	-							
	38	30	36.20	2390	2.8	-							
	43	26	31.94	2310	3.1	-							
	49	24	28.32	2230	3.4	-							
	57	20	24.07	2130	3.8	-							
	23	50	60.32	1340	1.00	-							
	27	43	51.52	1300	1.15	-							
	29	40	47.78	1290	1.25	-							
	31	37	44.16	1270	1.35	-							
	33	34	41.31	1250	1.45	-							
	34	34	40.34	1250	1.50	-	**R**	**07**	**DR**	**63S4**		6.4	435
	36	32	38.51	1240	1.55	-	**RF**	**07**	**DR**	**63S4**		6.4	436
	41	28	34.05	1200	1.75	-							
	47	24	29.08	1160	2.1	-							
	51	22	26.97	1140	2.2	-							
	59	19	23.32	1100	2.6	-							
	63	18	21.73	1080	2.8	-							
	75	15	18.31	1040	3.3	-							
	82	14	16.73	1010	3.6	-							
	98	12	14.12	970	4.1	-							
	114	10	12.06	930	4.6	-							
	123	9.3	11.18	910	4.8	-							
	143	8.0	9.67	870	5.4	-							
	153	7.5	9.01	850	5.6	-							
	176	6.5	7.85	820	6.3	-	**R**	**07**	**DR**	**63S4**		6.3	435
	185	6.2	7.48	810	6.3	-	**RF**	**07**	**DR**	**63S4**		6.3	436
	202	5.7	6.83	790	6.7	-							
	239	4.8	5.76	750	7.5	-							
	280	4.1	4.92	715	8.3	-							
	302	3.8	4.57	700	8.7	-							
	350	3.3	3.95	665	9.4	-							
	375	3.1	3.68	655	9.7	-							
	430	2.7	3.21	625	10	-							
	227	5.0	6.07	4260	8.6	-							
	267	4.3	5.18	4050	17	-	**RX**	**67**	**DR**	**63S4**		16	425
	305	3.8	4.53	3870	22	-	**RXF**	**67**	**DR**	**63S4**		20	426
	321	3.6	4.30*	3810	22	-							
	251	4.6	5.50*	3360	8.5	-							
	272	4.2	5.07	3270	8.6	-							
	317	3.6	4.35	3120	19	-							
	364	3.1	3.79	2980	22	-							
	389	2.9	3.55*	2910	24	-							
	440	2.6	3.14	2800	25	-	**RX**	**57**	**DR**	**63S4**		14	423
	474	2.4	2.91	2730	28	-	**RXF**	**57**	**DR**	**63S4**		16	424
	523	2.2	2.64*	2640	31	-							
	582	2.0	2.37	2550	34	-							
	676	1.7	2.04	2430	41	-							
	719	1.6	1.92*	2380	43	-							
	835	1.4	1.65	2260	49	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.18	**0.12**	11600	11143	65200	1.10	-							
	0.14	10300	9743	67300	1.25	-							
	0.16	8550	8443	69700	1.50	-							
	0.18	7400	7307	70900	1.75	-							
	0.20	6530	6447	71800	2.00	-	**R**	**147R77**	**DR**	**63M4**	420	472
	0.24	5640	5568	72500	2.3	-	**RF**	**147R77**	**DR**	**63M4**	430	472
	0.27	5140	4926	72800	2.5	-	**RM**	**147R77**	**DR**	**63M4**	600	472
	0.31	4420	4325	73300	2.9	-							
	0.35	3920	3754	73600	3.3	-							
	0.40	3370	3302	73800	3.8	-							
	0.18	7390	7479	54600	1.10	-							
	0.20	6950	6559	55500	1.15	-							
	0.23	5760	5834	57400	1.40	-	**R**	**137R77**	**DR**	**63M4**	290	472
	0.26	5420	5116	57900	1.50	-	**RF**	**137R77**	**DR**	**63M4**	310	472
	0.30	4520	4464	59000	1.75	-	**RM**	**137R77**	**DR**	**63M4**	425	472
	0.34	3980	3928	59500	2.0	-							
	0.28	5060	4709	58300	1.60	-							
	0.33	4320	4018	59200	1.85	-	**R**	**137R77**	**DR**	**63M4**	280	472
	0.38	3770	3514	59700	2.1	-	**RF**	**137R77**	**DR**	**63M4**	300	472
	0.40	3580	3338	59900	2.2	-	**RM**	**137R77**	**DR**	**63M4**	415	472
	0.45	3140	2929	60200	2.5	-							
	0.34	3980	3896	31100	1.10	-	**R**	**107R77**	**DR**	**63M4**	200	472
	0.43	3220	3039	34200	1.35	-	**RF**	**107R77**	**DR**	**63M4**	210	472
							RM	**107R77**	**DR**	**63M4**	295	472
	0.34	4210	3918	29900	1.00	-							
	0.39	3590	3343	32800	1.20	-							
	0.44	3260	3034	34100	1.30	-	**R**	**107R77**	**DR**	**63M4**	195	472
	0.50	2850	2653	35400	1.50	-	**RF**	**107R77**	**DR**	**63M4**	200	472
	0.58	2450	2280	36200	1.75	-	**RM**	**107R77**	**DR**	**63M4**	290	472
	0.64	2210	2067	36500	1.95	-							
	0.66	2100	1987	36700	2.0	-							
	0.72	1870	1827	36900	2.3	-	**R**	**107R77**	**DR**	**63M4**	200	472
	0.83	1590	1599	37200	2.7	-	**RF**	**107R77**	**DR**	**63M4**	205	472
	0.94	1430	1400	37300	3.0	-	**RM**	**107R77**	**DR**	**63M4**	295	472
	1.1	1220	1226	37400	3.5	-							
	0.49	2990	2668	20000	1.00	-							
	0.59	2480	2245	24200	1.20	-							
	0.65	2200	2016	25500	1.35	-							
	0.76	1960	1733	26500	1.50	-							
	0.81	1840	1623	27000	1.65	-	**R**	**97R57**	**DR**	**63M4**	125	472
	0.92	1610	1434	27500	1.85	-	**RF**	**97R57**	**DR**	**63M4**	140	472
	1.1	1330	1207	27900	2.2	-	**RM**	**97R57**	**DR**	**63M4**	195	472
	1.2	1180	1084	28000	2.5	-							
	1.4	1000	934	28200	3.0	-							
	1.5	930	878	28300	3.2	-							
	1.8	790	755	28400	3.8	-							
	0.57	2620	2311	23400	1.15	-	**R**	**97R57**	**DR**	**63M4**	130	472
	0.64	2350	2078	24800	1.25	-	**RF**	**97R57**	**DR**	**63M4**	145	472
							RM	**97R57**	**DR**	**63M4**	195	472
	1.1	1380	1232	18000	1.10	-							
	1.2	1270	1145	18600	1.20	-	**R**	**87R57**	**DR**	**63M4**	85	472
	1.3	1140	1037	19200	1.35	-	**RF**	**87R57**	**DR**	**63M4**	92	472
	1.4	1010	931	19800	1.50	-	**RM**	**87R57**	**DR**	**63M4**	120	472
	1.6	860	802	20000	1.80	-							
	1.0	1390	1303	17900	1.10	-							
	1.2	1220	1143	18900	1.25	-	**R**	**87R57**	**DR**	**63M4**	85	472
	1.5	970	885	19900	1.60	-	**RF**	**87R57**	**DR**	**63M4**	92	472
	1.7	850	776	20000	1.80	-	**RM**	**87R57**	**DR**	**63M4**	120	472

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.18	**2.0**	750	671	10500	1.10	-		**R**	**77R37**	**DR**	**63M4**	45	472
	2.3	630	571	11400	1.30	-		**RF**	**77R37**	**DR**	**63M4**	51	472
								RM	**77R37**	**DR**	**63M4**	76	472
	1.8	800	731	10100	1.00	-							
	2.0	745	646	10500	1.10	-							
	2.4	645	560	11300	1.25	-							
	2.7	550	488	11800	1.50	-		**R**	**77R37**	**DR**	**63M4**	46	472
	3.0	485	436	12100	1.70	-		**RF**	**77R37**	**DR**	**63M4**	52	472
	3.5	420	373	12400	1.95	-		**RM**	**77R37**	**DR**	**63M4**	77	472
	4.0	365	327	12600	2.2	-							
	4.6	325	289	12700	2.5	-							
	2.7	535	486	8250	1.10	-		**R**	**67R37**	**DR**	**63M4**	40	472
								RF	**67R37**	**DR**	**63M4**	43	472
								RM	**67R37**	**DR**	**63M4**	59	472
	2.7	565	495	7950	1.05	-							
	3.0	480	438	8740	1.25	-							
	3.4	425	388	9160	1.40	-		**R**	**67R37**	**DR**	**63M4**	41	472
	3.8	390	344	9380	1.50	-		**RF**	**67R37**	**DR**	**63M4**	44	472
	4.5	315	294	9800	1.90	-		**RM**	**67R37**	**DR**	**63M4**	60	472
	5.1	290	261	9920	2.0	-							
	3.7	400	357	7300	1.10	-							
	4.1	355	319	7460	1.25	-		**R**	**57R37**	**DR**	**63M4**	34	472
	4.8	300	273	7630	1.50	-		**RF**	**57R37**	**DR**	**63M4**	38	472
	5.5	260	241	7730	1.75	-		**RM**	**57R37**	**DR**	**63M4**	50	472
	6.1	230	215	7790	1.95	-							
	3.7	420	359	7230	1.05	-							
	4.1	375	324	7380	1.20	-							
	4.6	335	290	7530	1.35	-							
	5.0	300	262	7620	1.50	-		**R**	**57R37**	**DR**	**63M4**	33	472
	5.4	280	246	7680	1.60	-		**RF**	**57R37**	**DR**	**63M4**	37	472
	6.0	245	220	7750	1.80	-		**RM**	**57R37**	**DR**	**63M4**	49	472
	7.0	210	188	7830	2.1	-							
	8.3	177	159	7890	2.6	-							
	5.2	290	255	5460	1.05	-							
	5.8	255	228	5620	1.15	-		**R**	**47R37**	**DR**	**63M4**	28	472
	6.8	215	195	5790	1.40	-		**RF**	**47R37**	**DR**	**63M4**	28	472
	7.7	199	172	4960	1.00	-		**R**	**37R17**	**DR**	**63M4**	17	472
	8.8	173	150	5260	1.15	-		**RF**	**37R17**	**DR**	**63M4**	19	472
	8.5	176	156	5220	1.15	-		**R**	**37R17**	**DR**	**63M4**	17	472
								RF	**37R17**	**DR**	**63M4**	18	472
	12	124	110	4260	1.05	-		**R**	**27R17**	**DR**	**63M4**	11	472
	14	105	94	4340	1.25	-		**RF**	**27R17**	**DR**	**63M4**	11	472
	13	121	104	4270	1.10	-		**R**	**27R17**	**DR**	**63M4**	11	472
	15	104	90	4340	1.25	-		**RF**	**27R17**	**DR**	**63M4**	11	472
	6.8	250	195.24*	12900	3.2	-							
	7.9	215	166.59	13000	3.8	-		**R**	**77**	**DR**	**63M4**	37	456
	9.1	190	145.67	13000	4.3	-		**RF**	**77**	**DR**	**63M4**	43	457
	9.5	180	138.39	13000	4.6	-		**RM**	**77**	**DR**	**63M4**	68	457
	11	158	121.42	13000	5.2	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.18	**6.6**	260	199.81	10100	2.3	-							
	7.2	235	184.07	10100	2.5	-							
	8.4	205	158.14	10200	2.9	-							
	9.6	179	137.67	10300	3.4	-							
	10	168	128.97	10300	3.6	-	**R**	**67**	**DR**	**63M4**		30	453
	12	148	113.94	10400	4.0	-	**RF**	**67**	**DR**	**63M4**		33	454
	12	138	105.83	10400	4.4	-	**RM**	**67**	**DR**	**63M4**		49	454
	14	125	95.91	10400	4.8	-							
	15	112	86.11	10500	5.1	-							
	18	97	74.17	10500	5.6	-							
	19	91	69.75	10500	5.8	-							
	7.1	240	186.89	7770	1.85	-							
	7.7	220	172.17	7810	2.0	-							
	8.9	193	147.92	7860	2.3	-							
	10	168	128.77	7900	2.7	-	**R**	**57**	**DR**	**63M4**		23	450
	11	157	120.63	7920	2.9	-	**RF**	**57**	**DR**	**63M4**		27	451
	12	139	106.58	7940	3.2	-	**RM**	**57**	**DR**	**63M4**		39	451
	13	129	98.99	7950	3.5	-							
	15	117	89.71	7970	3.8	-							
	7.5	230	176.88	5740	1.30	-							
	8.1	210	162.94	5810	1.40	-							
	9.4	182	139.99	5910	1.65	-							
	11	159	121.87	5980	1.90	-							
	12	149	114.17	6000	2.0	-	**R**	**47**	**DR**	**63M4**		18	447
	13	131	100.86	6040	2.3	-	**RF**	**47**	**DR**	**63M4**		18	448
	14	122	93.68	6060	2.5	-							
	16	111	84.90	6080	2.7	-							
	17	99	76.23	6100	3.0	-							
	9.8	176	134.82	5230	1.15	-							
	11	161	123.66	5370	1.25	-							
	13	137	105.28	5580	1.45	-							
	15	118	90.77	5710	1.70	-							
	16	110	84.61	5760	1.80	-	**R**	**37**	**DR**	**63M4**		14	444
	18	96	73.96	5840	2.1	-	**RF**	**37**	**DR**	**63M4**		16	445
	19	90	69.33	5870	2.2	-							
	22	80	61.18	5920	2.5	-							
	24	73	55.76	5940	2.8	-							
	27	63	48.08	5960	3.2	-							
	15	118	90.96	4280	1.10	-							
	16	110	84.78	4320	1.20	-							
	18	96	74.11	4360	1.35	-							
	19	90	69.47	4380	1.45	-							
	22	80	61.30	4320	1.65	-							
	24	73	55.87	4210	1.80	-							
	27	63	48.17	4040	2.1	-	**R**	**27**	**DR**	**63M4**		8.3	441
	29	58	44.90	3960	2.2	-	**RF**	**27**	**DR**	**63M4**		8.2	442
	34	51	39.25	3810	2.5	-							
	36	48	36.79	3740	2.7	-							
	41	42	32.47	3610	3.0	-							
	46	38	28.78	3480	3.3	-							
	54	32	24.47	3310	3.7	-							
	47	37	28.37	3460	3.5	-							
	51	34	26.09	3380	3.7	-							
	59	29	22.32	3220	4.2	-							
	68	25	19.35	3090	4.6	-	**R**	**27**	**DR**	**63M4**		8.0	441
	73	24	18.08	3020	4.8	-	**RF**	**27**	**DR**	**63M4**		8.0	442
	84	20	15.63	2890	5.3	-							
	99	17	13.28*	2750	6.0	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.18	**20**	85	65.61	1740	1.00	-							
	23	75	57.35	2350	1.15	-							
	25	70	53.76	2500	1.20	-							
	28	62	47.44	2450	1.40	-							
	30	58	44.18	2410	1.50	-	**R**	**17**	**DR**	**63M4**		7.6	438
	34	50	38.61	2340	1.70	-	**RF**	**17**	**DR**	**63M4**		7.5	439
	36	47	36.20	2300	1.80	-							
	41	42	31.94	2240	2.0	-							
	47	37	28.32	2170	2.2	-							
	55	31	24.07	2080	2.5	-							
	52	33	25.23	2110	2.5	-							
	57	30	23.15	2060	2.7	-	**R**	**17**	**DR**	**63M4**		7.3	438
	67	26	19.71	1970	3.0	-	**RF**	**17**	**DR**	**63M4**		7.2	439
	78	22	16.99	1890	3.3	-							
	34	50	38.51	1120	1.00	-							
	39	44	34.05	1100	1.15	-							
	45	38	29.08	1080	1.30	-	**R**	**07**	**DR**	**63M4**		6.4	435
	49	35	26.97	1070	1.40	-	**RF**	**07**	**DR**	**63M4**		6.4	436
	57	30	23.32	1040	1.65	-							
	61	28	21.73	1020	1.75	-							
	72	24	18.31	990	2.1	-							
	79	22	16.73	970	2.3	-							
	94	18	14.12	930	2.6	-							
	109	16	12.06	900	2.9	-							
	118	15	11.18	880	3.1	-							
	137	13	9.67	850	3.4	-							
	146	12	9.01	840	3.6	-							
	168	10	7.85	800	4.0	-	**R**	**07**	**DR**	**63M4**		6.3	435
	177	9.7	7.48	795	4.0	-	**RF**	**07**	**DR**	**63M4**		6.3	436
	193	8.9	6.83	775	4.3	-							
	229	7.5	5.76	740	4.8	-							
	268	6.4	4.92	710	5.3	-							
	289	5.9	4.57	695	5.6	-							
	334	5.1	3.95	665	6.1	-							
	359	4.8	3.68	650	6.2	-							
	412	4.2	3.21	625	6.7	-							
	218	7.9	6.07	4310	5.4	-							
	255	6.7	5.18	4090	11	-							
	292	5.9	4.53	3920	14	-							
	307	5.6	4.30*	3850	14	-							
	350	4.9	3.77	3690	18	-	**RX**	**67**	**DR**	**63M4**		16	425
	412	4.2	3.20*	3500	24	-	**RXF**	**67**	**DR**	**63M4**		20	426
	457	3.8	2.89	3380	28	-							
	519	3.3	2.54	3240	36	-							
	550	3.1	2.40*	3180	40	-							
	646	2.7	2.04	3020	47	-							
	240	7.2	5.50*	3400	5.4	-							
	261	6.6	5.07	3310	5.4	-							
	303	5.7	4.35	3150	12	-							
	348	4.9	3.79	3010	14	-							
	372	4.6	3.55*	2940	15	-							
	421	4.1	3.14	2830	16	-	**RX**	**57**	**DR**	**63M4**		14	423
	453	3.8	2.91	2760	18	-	**RXF**	**57**	**DR**	**63M4**		16	424
	500	3.4	2.64*	2670	20	-							
	557	3.1	2.37	2580	22	-							
	647	2.7	2.04	2460	26	-							
	688	2.5	1.92*	2410	28	-							
	799	2.2	1.65	2290	31	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.25	**0.17**	11600	8443	65200	1.10	-							
	0.19	10000	7307	67700	1.30	-							
	0.22	8890	6447	69300	1.45	-							
	0.25	7680	5568	70600	1.70	-	**R**	**147R77**	**EDRS**	**71S4**		425	472
	0.29	6950	4926	71400	1.85	-	**RF**	**147R77**	**EDRS**	**71S4**		430	472
	0.32	6000	4325	72200	2.2	-	**RM**	**147R77**	**EDRS**	**71S4**		600	472
	0.37	5300	3754	72700	2.4	-							
	0.43	4580	3302	73200	2.8	-							
	0.48	3990	2898	73500	3.2	-							
	0.24	7900	5834	53600	1.00	-							
	0.27	7300	5116	54800	1.10	-	**R**	**137R77**	**EDRS**	**71S4**		290	472
	0.31	6160	4464	56800	1.30	-	**RF**	**137R77**	**EDRS**	**71S4**		315	472
	0.36	5420	3928	57900	1.50	-	**RM**	**137R77**	**EDRS**	**71S4**		425	472
	0.30	6820	4709	55700	1.15	-							
	0.35	5820	4018	57300	1.35	-	**R**	**137R77**	**EDRS**	**71S4**		280	472
	0.40	5090	3514	58300	1.55	-	**RF**	**137R77**	**EDRS**	**71S4**		305	472
	0.42	4830	3338	58600	1.65	-	**RM**	**137R77**	**EDRS**	**71S4**		415	472
	0.48	4240	2929	59300	1.90	-							
	0.53	3830	2658	59700	2.1	-							
	0.58	3480	2412	60000	2.3	-	**R**	**137R77**	**EDRS**	**71S4**		290	472
	0.68	2990	2073	60300	2.7	-	**RF**	**137R77**	**EDRS**	**71S4**		315	472
	0.76	2560	1839	60600	3.1	-	**RM**	**137R77**	**EDRS**	**71S4**		425	472
	1.0	1990	1397	60900	4.0	-							
	1.2	1720	1226	61100	4.6	-							
	0.71	2830	1987	35400	1.50	-							
	0.77	2550	1827	36100	1.70	-							
	0.88	2190	1599	36600	1.95	-	**R**	**107R77**	**EDRS**	**71S4**		205	472
	1.0	1950	1400	36800	2.2	-	**RF**	**107R77**	**EDRS**	**71S4**		210	472
	1.2	1680	1226	37100	2.6	-	**RM**	**107R77**	**EDRS**	**71S4**		295	472
	1.5	1310	939	37400	3.3	-							
	1.7	1120	822	37500	3.8	-							
	0.81	2610	1733	23400	1.15	-	**R**	**97R57**	**EDRS**	**71S4**		130	472
	0.87	2440	1623	24400	1.25	-	**RF**	**97R57**	**EDRS**	**71S4**		145	472
							RM	**97R57**	**EDRS**	**71S4**		195	472
	0.77	2720	1823	22800	1.10	-							
	0.89	2360	1583	24800	1.25	-							
	1.0	2040	1396	26200	1.45	-							
	1.1	1770	1228	27200	1.70	-	**R**	**97R57**	**EDRS**	**71S4**		130	472
	1.3	1610	1069	27500	1.85	-	**RF**	**97R57**	**EDRS**	**71S4**		150	472
	1.5	1400	938	27800	2.1	-	**RM**	**97R57**	**EDRS**	**71S4**		200	472
	1.7	1190	824	28000	2.5	-							
	1.9	1060	737	28200	2.8	-							
	2.2	910	632	28300	3.3	-							
	1.4	1530	1037	17000	1.00	-	**R**	**87R57**	**EDRS**	**71S4**		88	472
	1.5	1360	931	18100	1.15	-	**RF**	**87R57**	**EDRS**	**71S4**		96	472
	1.8	1160	802	19200	1.35	-	**RM**	**87R57**	**EDRS**	**71S4**		125	472
	1.6	1300	885	18400	1.20	-							
	1.8	1140	776	19200	1.35	-							
	2.0	1010	685	19800	1.55	-	**R**	**87R57**	**EDRS**	**71S4**		89	472
	2.4	850	599	20000	1.80	-	**RF**	**87R57**	**EDRS**	**71S4**		96	472
	2.7	745	525	20000	2.1	-	**RM**	**87R57**	**EDRS**	**71S4**		125	472
	3.1	655	456	20000	2.4	-							
	5.2	380	268	20000	4.1	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.25	**2.9**	730	488	10700	1.10	-							
	3.2	650	436	11200	1.25	-							
	3.8	555	373	11800	1.45	-	**R**	**77R37**	**EDRS**	**71S4**		49	472
	4.3	490	327	12100	1.65	-	**RF**	**77R37**	**EDRS**	**71S4**		55	472
	4.9	435	289	12400	1.90	-	**RM**	**77R37**	**EDRS**	**71S4**		80	472
	5.4	385	260	12500	2.1	-							
	6.3	325	224	12700	2.5	-							
	3.6	570	388	7890	1.05	-							
	4.1	520	344	8390	1.15	-							
	4.8	425	294	9160	1.40	-							
	5.4	385	261	9410	1.50	-	**R**	**67R37**	**EDRS**	**71S4**		43	472
	6.0	345	234	9640	1.70	-	**RF**	**67R37**	**EDRS**	**71S4**		47	472
	7.0	295	200	9900	2.0	-	**RM**	**67R37**	**EDRS**	**71S4**		62	472
	8.0	255	176	10100	2.3	-							
	8.9	225	158	10200	2.6	-							
	3.7	590	384	7630	1.00	-							
	3.9	550	359	8070	1.10	-							
	4.5	475	310	8790	1.25	-	**R**	**67R37**	**EDRS**	**71S4**		43	472
	5.3	400	264	9330	1.50	-	**RF**	**67R37**	**EDRS**	**71S4**		46	472
	6.0	355	235	9600	1.70	-	**RM**	**67R37**	**EDRS**	**71S4**		61	472
	7.0	300	201	9880	2.0	-							
	7.7	270	181	10000	2.2	-							
	5.2	400	273	7300	1.10	-							
	5.8	350	241	7480	1.30	-							
	6.5	310	215	7590	1.45	-	**R**	**57R37**	**EDRS**	**71S4**		37	472
	7.5	275	187	7690	1.65	-	**RF**	**57R37**	**EDRS**	**71S4**		40	472
	8.6	235	164	7780	1.90	-	**RM**	**57R37**	**EDRS**	**71S4**		52	472
	9.9	205	142	7840	2.2	-							
	4.8	440	290	7130	1.00	-							
	5.4	400	262	7300	1.10	-	**R**	**57R37**	**EDRS**	**71S4**		36	472
	5.7	370	246	7400	1.20	-	**RF**	**57R37**	**EDRS**	**71S4**		39	472
	6.4	330	220	7540	1.35	-	**RM**	**57R37**	**EDRS**	**71S4**		51	472
	7.2	290	195	5470	1.05	-							
	7.7	270	182	5560	1.10	-	**R**	**47R37**	**EDRS**	**71S4**		31	472
	9.1	225	154	5760	1.35	-	**RF**	**47R37**	**EDRS**	**71S4**		31	472
	11	194	130	5010	1.05	-							
	11	185	124	5130	1.10	-	**R**	**37R17**	**EDRS**	**71S4**		20	472
	13	164	110	5340	1.20	-	**RF**	**37R17**	**EDRS**	**71S4**		21	472
	15	139	94	5560	1.45	-							
	11	197	127	4990	1.00	-							
	14	160	104	5380	1.25	-	**R**	**37R17**	**EDRS**	**71S4**		19	472
	16	138	90	5570	1.45	-	**RF**	**37R17**	**EDRS**	**71S4**		21	472
	7.2	330	195.24*	12700	2.5	-							
	8.4	280	166.59	12800	2.9	-	**R**	**77**	**EDRS**	**71S4**		39	456
	9.6	245	145.67	12900	3.3	-	**RF**	**77**	**EDRS**	**71S4**		45	457
	10	235	138.39	13000	3.5	-	**RM**	**77**	**EDRS**	**71S4**		70	457
	12	205	121.42	13000	4.0	-							
	7.0	335	199.81	9690	1.75	-							
	7.6	310	184.07	9820	1.90	-							
	8.9	265	158.14	10000	2.2	-							
	10	230	137.67	10100	2.6	-	**R**	**67**	**EDRS**	**71S4**		34	453
	11	215	128.97	10200	2.7	-	**RF**	**67**	**EDRS**	**71S4**		37	454
	12	194	113.94	10300	3.1	-	**RM**	**67**	**EDRS**	**71S4**		53	454
	13	180	105.83	10300	3.3	-							
	15	163	95.91	10400	3.6	-							
	16	146	86.11	10400	3.9	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.25	**7.5**	315	186.89	7580	1.40	-							
	8.2	290	172.17	7650	1.55	-							
	9.5	250	147.92	7750	1.80	-							
	11	215	128.77	7820	2.1	-							
	12	205	120.63	7840	2.2	-	**R**	**57**	**EDRS**	**71S4**		27	450
	13	181	106.58	7880	2.5	-	**RF**	**57**	**EDRS**	**71S4**		30	451
	14	168	98.99	7900	2.7	-	**RM**	**57**	**EDRS**	**71S4**		42	451
	16	152	89.71	7920	3.0	-							
	17	137	80.55	7940	3.3	-							
	20	118	69.23	7970	3.8	-							
	7.9	300	176.88	5420	1.00	-							
	8.6	275	162.94	5540	1.10	-							
	10	235	139.99	5710	1.25	-							
	12	205	121.87	5830	1.45	-							
	12	194	114.17	5870	1.55	-							
	14	171	100.86	5940	1.75	-							
	15	159	93.68	5970	1.90	-	**R**	**47**	**EDRS**	**71S4**		22	447
	17	144	84.90	6010	2.1	-	**RF**	**47**	**EDRS**	**71S4**		22	448
	18	130	76.23	6040	2.3	-							
	20	116	68.54	6070	2.6	-							
	22	109	64.21	6080	2.8	-							
	25	96	56.73	6100	3.1	-							
	27	90	52.69	6110	3.4	-							
	29	81	47.75	5940	3.7	-							
	13	179	105.28	5190	1.10	-							
	15	154	90.77	5430	1.30	-							
	17	144	84.61	5520	1.40	-							
	19	126	73.96	5660	1.60	-							
	20	118	69.33	5710	1.70	-							
	23	104	61.18	5800	1.90	-	**R**	**37**	**EDRS**	**71S4**		17	444
	25	95	55.76	5840	2.1	-	**RF**	**37**	**EDRS**	**71S4**		18	445
	29	82	48.08	5740	2.4	-							
	31	76	44.81	5630	2.6	-							
	36	67	39.17	5410	2.8	-							
	38	62	36.72	5310	3.0	-							
	43	55	32.40	5110	3.2	-							
	19	126	74.11	4250	1.05	-							
	20	118	69.47	4230	1.10	-							
	23	104	61.30	4110	1.25	-							
	25	95	55.87	4010	1.35	-							
	29	82	48.17	3860	1.60	-							
	31	76	44.90	3790	1.70	-	**R**	**27**	**EDRS**	**71S4**		11	441
	36	67	39.25	3650	1.95	-	**RF**	**27**	**EDRS**	**71S4**		11	442
	38	62	36.79	3590	2.1	-							
	43	55	32.47	3460	2.3	-							
	49	49	28.78	3350	2.5	-							
	57	42	24.47	3200	2.8	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.25	**50**	48	28.37	3340	2.7	-							
	54	44	26.09	3260	2.9	-							
	63	38	22.32	3110	3.2	-							
	73	33	19.35	2980	3.6	-							
	78	31	18.08	2920	3.7	-							
	90	27	15.63	2800	4.1	-							
	106	23	13.28*	2660	4.6	-							
	118	20	11.86	2570	5.0	-							
	139	17	10.13	2450	5.7	-	**R**	**27**	**EDRS**	**71S4**	11	441
	149	16	9.41	2380	5.6	-	**RF**	**27**	**EDRS**	**71S4**	11	442
	172	14	8.16	2280	6.2	-						
	184	13	7.63*	2230	6.5	-						
	213	11	6.59	2130	7.1	-						
	251	9.5	5.60*	2020	8.0	-						
	281	8.5	5.00*	1950	8.6	-						
	329	7.3	4.27	1860	9.6	-						
	351	6.8	4.00*	1820	10	-						
	417	5.7	3.37	1720	12	-						
	30	81	47.44	2030	1.05	-						
	32	75	44.18	2220	1.15	-						
	36	66	38.61	2170	1.30	-						
	39	62	36.20	2140	1.40	-	**R**	**17**	**EDRS**	**71S4**	10	438
	44	54	31.94	2090	1.55	-	**RF**	**17**	**EDRS**	**71S4**	10.0	439
	50	48	28.32	2040	1.70	-						
	58	41	24.07	1960	1.90	-						
	56	43	25.23	1990	1.90	-						
	61	39	23.15	1950	2.0	-						
	71	34	19.71	1870	2.3	-						
	83	29	16.99	1800	2.5	-	**R**	**17**	**EDRS**	**71S4**	9.8	438
	89	27	15.84	1770	2.6	-	**RF**	**17**	**EDRS**	**71S4**	9.7	439
	102	24	13.84	1710	2.9	-						
	108	22	12.98	1680	3.0	-						
	123	20	11.45	1620	3.3	-						
	48	49	29.08	960	1.00	-						
	52	46	26.97	960	1.10	-	**R**	**07**	**EDRS**	**71S4**	9.0	435
	60	40	23.32	940	1.25	-	**RF**	**07**	**EDRS**	**71S4**	9.0	436
	65	37	21.73	940	1.35	-						
	77	31	18.31	910	1.60	-						
	84	28	16.73	900	1.75	-						
	100	24	14.12	870	2.0	-						
	117	20	12.06	840	2.2	-						
	126	19	11.18	830	2.4	-						
	145	16	9.67	800	2.6	-						
	156	15	9.01	790	2.8	-						
	179	13	7.85	765	3.1	-	**R**	**07**	**EDRS**	**71S4**	8.8	435
	188	13	7.48	755	3.1	-	**RF**	**07**	**EDRS**	**71S4**	8.8	436
	206	12	6.83	740	3.3	-						
	244	9.8	5.76	710	3.7	-						
	285	8.4	4.92	680	4.0	-						
	308	7.8	4.57	665	4.2	-						
	356	6.7	3.95	640	4.6	-						
	382	6.3	3.68	625	4.8	-						
	438	5.4	3.21	600	5.2	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.25	**232**	10	6.07	4210	4.2	-							
	271	8.8	5.18	4000	8.5	-							
	310	7.7	4.53	3820	11	-							
	327	7.3	4.30*	3760	11	-							
	372	6.4	3.77	3600	14	-	**RX**	**67**		**EDRS**	**71S4**	20	425
	439	5.4	3.20*	3420	19	-	**RXF**	**67**		**EDRS**	**71S4**	24	426
	486	4.9	2.89	3300	22	-							
	553	4.3	2.54	3170	27	-							
	585	4.1	2.40*	3110	30	-							
	688	3.5	2.04	2950	37	-							
	255	9.3	5.50*	3310	4.2	-							
	277	8.6	5.07	3220	4.2	-							
	323	7.4	4.35	3070	9.2	-							
	371	6.4	3.79	2930	11	-							
	396	6.0	3.55*	2870	12	-							
	448	5.3	3.14	2760	12	-	**RX**	**57**		**EDRS**	**71S4**	17	423
	482	4.9	2.91	2690	14	-	**RXF**	**57**		**EDRS**	**71S4**	19	424
	532	4.5	2.64*	2610	15	-							
	593	4.0	2.37	2520	17	-							
	688	3.5	2.04	2400	20	-							
	732	3.3	1.92*	2350	21	-							
	850	2.8	1.65	2240	25	-							
0.37	**0.25**	12100	5568	64200	1.05	-							
	0.28	10900	4926	66300	1.20	-							
	0.32	9510	4325	68500	1.35	-	**R**	**147R77**		**EDRS**	**71M4**	425	472
	0.37	8340	3754	69900	1.55	-	**RF**	**147R77**		**EDRS**	**71M4**	435	472
	0.42	7260	3302	71100	1.80	-	**RM**	**147R77**		**EDRS**	**71M4**	600	472
	0.47	6340	2898	71900	2.0	-							
	0.39	7970	3514	53400	1.00	-							
	0.41	7570	3338	54300	1.05	-	**R**	**137R77**		**EDRS**	**71M4**	285	472
	0.47	6640	2929	56000	1.20	-	**RF**	**137R77**		**EDRS**	**71M4**	305	472
	0.55	5620	2484	57600	1.40	-	**RM**	**137R77**		**EDRS**	**71M4**	420	472
	0.61	5040	2242	58300	1.60	-							
	0.52	6010	2658	57000	1.35	-							
	0.57	5460	2412	57800	1.45	-							
	0.66	4690	2073	58800	1.70	-							
	0.75	4070	1839	59400	1.95	-	**R**	**137R77**		**EDRS**	**71M4**	290	472
	0.98	3140	1397	60200	2.6	-	**RF**	**137R77**		**EDRS**	**71M4**	315	472
	1.1	2730	1226	60500	2.9	-	**RM**	**137R77**		**EDRS**	**71M4**	425	472
	1.3	2450	1090	60700	3.3	-							
	1.4	2130	951	60900	3.7	-							
	0.81	3800	1693	31900	1.15	-							
	0.89	3430	1550	33400	1.25	-	**R**	**107R77**		**EDRS**	**71M4**	200	472
	0.98	3110	1407	34600	1.40	-	**RF**	**107R77**		**EDRS**	**71M4**	205	472
	1.1	2680	1209	35900	1.60	-	**RM**	**107R77**		**EDRS**	**71M4**	295	472
	1.3	2330	1055	36400	1.85	-							
	0.75	4050	1827	30800	1.05	-							
	0.86	3500	1599	33200	1.25	-							
	0.98	3100	1400	34600	1.40	-	**R**	**107R77**		**EDRS**	**71M4**	205	472
	1.1	2680	1226	35900	1.60	-	**RF**	**107R77**		**EDRS**	**71M4**	210	472
	1.5	2080	939	36700	2.1	-	**RM**	**107R77**		**EDRS**	**71M4**	300	472
	1.7	1800	822	37000	2.4	-							
	1.1	2770	1207	22500	1.10	-	**R**	**97R57**		**EDRS**	**71M4**	130	472
	1.3	2470	1084	24200	1.20	-	**RF**	**97R57**		**EDRS**	**71M4**	150	472
							RM	**97R57**		**EDRS**	**71M4**	200	472

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.37	**1.1**	2780	1228	22400	1.10	-							
	1.3	2480	1069	24200	1.20	-							
	1.5	2170	938	25700	1.40	-							
	1.7	1870	824	26900	1.60	-	**R**	**97R57**	**EDRS**	**71M4**		135	472
	1.9	1670	737	27400	1.80	-	**RF**	**97R57**	**EDRS**	**71M4**		150	472
	2.2	1430	632	27700	2.1	-	**RM**	**97R57**	**EDRS**	**71M4**		200	472
	3.2	980	431	28200	3.0	-							
	3.6	860	379	28300	3.5	-							
	4.1	765	336	28400	3.9	-							
	2.1	1450	649	17600	1.05	-	**R**	**87R57**	**EDRS**	**71M4**		91	472
							RF	**87R57**	**EDRS**	**71M4**		98	472
							RM	**87R57**	**EDRS**	**71M4**		130	472
	2.3	1340	599	18200	1.15	-							
	2.6	1170	525	19100	1.30	-	**R**	**87R57**	**EDRS**	**71M4**		91	472
	3.0	1020	456	19700	1.50	-	**RF**	**87R57**	**EDRS**	**71M4**		99	472
	5.1	595	268	20000	2.6	-	**RM**	**87R57**	**EDRS**	**71M4**		130	472
	5.8	525	236	20000	2.9	-							
	2.6	1260	538	18600	1.20	-							
	2.9	1100	472	19400	1.40	-	**R**	**87R57**	**EDRS**	**71M4**		90	472
	3.4	930	400	20000	1.65	-	**RF**	**87R57**	**EDRS**	**71M4**		97	472
	3.8	830	361	20000	1.85	-	**RM**	**87R57**	**EDRS**	**71M4**		125	472
	4.2	755	327	10500	1.10	-							
	4.8	670	289	11100	1.20	-							
	5.3	600	260	11500	1.35	-	**R**	**77R37**	**EDRS**	**71M4**		50	472
	6.1	510	224	12000	1.60	-	**RF**	**77R37**	**EDRS**	**71M4**		56	472
	7.0	445	197	12300	1.85	-	**RM**	**77R37**	**EDRS**	**71M4**		81	472
	8.1	390	169	12500	2.1	-							
	9.2	340	149	12700	2.4	-							
	5.9	540	234	8200	1.10	-	**R**	**67R37**	**EDRS**	**71M4**		45	472
	6.9	455	200	8920	1.30	-	**RF**	**67R37**	**EDRS**	**71M4**		48	472
							RM	**67R37**	**EDRS**	**71M4**		63	472
	4.8	740	289.74	28400	4.0	-							
	5.4	655	255.71	28500	4.6	-	**R**	**97**	**EDRS**	**71M4**		110	462
	5.7	615	241.25	28500	4.8	-	**RF**	**97**	**EDRS**	**71M4**		125	463
	6.4	555	216.28	28500	5.4	-	**RM**	**97**	**EDRS**	**71M4**		180	463
	5.6	630	246.54	20000	2.4	-							
	6.4	555	216.54	20000	2.8	-							
	6.7	525	205.71	20000	2.9	-	**R**	**87**	**EDRS**	**71M4**		68	459
	7.6	465	181.77	20000	3.3	-	**RF**	**87**	**EDRS**	**71M4**		75	460
	8.8	395	155.34	20000	3.9	-	**RM**	**87**	**EDRS**	**71M4**		105	460
	9.7	365	142.41	20000	4.2	-							
	7.0	500	195.24*	12100	1.65	-							
	8.2	425	166.59	12400	1.90	-							
	9.4	370	145.67	12600	2.2	-	**R**	**77**	**EDRS**	**71M4**		42	456
	9.9	355	138.39	12600	2.3	-	**RF**	**77**	**EDRS**	**71M4**		48	457
	11	310	121.42	12800	2.6	-	**RM**	**77**	**EDRS**	**71M4**		73	457
	13	260	102.99	12900	3.1	-							
	15	235	92.97	12900	3.4	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.37	**6.9**	510	199.81	8460	1.15	-							
	7.5	470	184.07	8810	1.25	-							
	8.7	405	158.14	9300	1.50	-							
	10.0	350	137.67	9610	1.70	-							
	11	330	128.97	9730	1.80	-							
	12	290	113.94	9920	2.0	-	**R**	**67**		**EDRS**	**71M4**	36	453
	13	270	105.83	10000	2.2	-	**RF**	**67**		**EDRS**	**71M4**	39	454
	14	245	95.91	10100	2.4	-	**RM**	**67**		**EDRS**	**71M4**	55	454
	16	220	86.11	10200	2.6	-							
	19	191	74.17	10300	2.8	-							
	20	179	69.75	10300	2.9	-							
	22	157	61.26	10400	3.0	-							
	24	146	56.89	10400	3.2	-							
	8.0	440	172.17	7140	1.00	-							
	9.3	380	147.92	7380	1.20	-							
	11	330	128.77	7540	1.35	-							
	11	310	120.63	7600	1.45	-							
	13	270	106.58	7700	1.65	-							
	14	250	98.99	7740	1.75	-	**R**	**57**		**EDRS**	**71M4**	29	450
	15	230	89.71	7790	1.95	-	**RF**	**57**		**EDRS**	**71M4**	33	451
	17	205	80.55	7840	2.2	-	**RM**	**57**		**EDRS**	**71M4**	45	451
	20	178	69.23	7890	2.5	-							
	21	167	64.85	7900	2.7	-							
	24	147	57.29	7770	3.1	-							
	26	137	53.22	7600	3.2	-							
	29	124	48.23	7390	3.4	-							
	12	290	114.17	5460	1.00	-							
	14	255	100.86	5620	1.15	-							
	15	240	93.68	5700	1.25	-							
	16	215	84.90	5790	1.35	-							
	18	196	76.23	5870	1.55	-							
	20	176	68.54	5930	1.70	-							
	21	165	64.21	5960	1.80	-	**R**	**47**		**EDRS**	**71M4**	24	447
	24	146	56.73	6010	2.1	-	**RF**	**47**		**EDRS**	**71M4**	24	448
	26	135	52.69	5990	2.2	-							
	29	123	47.75	5830	2.4	-							
	32	110	42.87	5650	2.7	-							
	37	95	36.93	5420	3.0	-							
	40	89	34.73	5320	3.1	-							
	41	87	33.79	5280	2.8	-							
	44	80	31.12	5150	2.8	-							
	51	69	26.74	4920	3.8	-	**R**	**47**		**EDRS**	**71M4**	24	447
	59	60	23.28	4720	4.2	-	**RF**	**47**		**EDRS**	**71M4**	24	448
	63	56	21.81	4630	4.4	-							
	19	190	73.96	4900	1.05	-							
	20	178	69.33	5020	1.10	-							
	22	157	61.18	5200	1.25	-							
	25	143	55.76	5300	1.40	-							
	29	124	48.08	5410	1.60	-							
	31	115	44.81	5440	1.75	-	**R**	**37**		**EDRS**	**71M4**	18	444
	35	101	39.17	5290	1.90	-	**RF**	**37**		**EDRS**	**71M4**	19	445
	37	94	36.72	5200	1.95	-							
	42	83	32.40	5020	2.1	-							
	48	74	28.73	4850	2.3	-							
	56	63	24.42	4630	2.6	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.37	**49**	73	28.32	4830	2.5	-							
	53	67	26.03	4720	2.7	-							
	62	57	22.27	4510	3.0	-							
	71	50	19.31	4320	3.4	-	**R**	**37**	**EDRS**	**71M4**		18	444
	76	46	18.05	4230	3.5	-	**RF**	**37**	**EDRS**	**71M4**		19	445
	88	40	15.60	4050	3.9	-							
	104	34	13.25	3860	4.3	-							
	116	30	11.83	3720	4.7	-							
	29	124	48.17	3600	1.05	-							
	31	115	44.90	3620	1.15	-							
	35	101	39.25	3510	1.30	-							
	37	94	36.79	3460	1.40	-	**R**	**27**	**EDRS**	**71M4**		12	441
	42	83	32.47	3350	1.50	-	**RF**	**27**	**EDRS**	**71M4**		12	442
	48	74	28.78	3250	1.65	-							
	56	63	24.47	3120	1.90	-							
	48	73	28.37	3240	1.80	-							
	53	67	26.09	3170	1.90	-							
	62	57	22.32	3040	2.1	-							
	71	50	19.35	2920	2.4	-	**R**	**27**	**EDRS**	**71M4**		12	441
	76	46	18.08	2870	2.4	-	**RF**	**27**	**EDRS**	**71M4**		12	442
	88	40	15.63	2750	2.7	-							
	104	34	13.28*	2620	3.0	-							
	43	82	31.94	1910	1.00	-							
	49	73	28.32	1880	1.10	-	**R**	**17**	**EDRS**	**71M4**		11	438
	57	62	24.07	1830	1.25	-	**RF**	**17**	**EDRS**	**71M4**		11	439
	54	65	25.23	1840	1.25	-							
	59	60	23.15	1820	1.35	-							
	70	51	19.71	1760	1.50	-							
	81	44	16.99	1710	1.65	-							
	87	41	15.84	1690	1.75	-							
	99	36	13.84	1640	1.95	-							
	106	33	12.98	1610	2.0	-							
	120	29	11.45	1560	2.2	-							
	135	26	10.15	1520	2.4	-	**R**	**17**	**EDRS**	**71M4**		11	438
	159	22	8.63	1460	2.8	-	**RF**	**17**	**EDRS**	**71M4**		11	439
	182	19	7.55	1370	2.4	-							
	195	18	7.04	1350	2.5	-							
	224	16	6.15	1300	2.7	-							
	239	15	5.76	1280	2.8	-							
	270	13	5.09	1240	3.0	-							
	305	12	4.51	1200	3.4	-							
	359	9.9	3.83	1150	3.8	-							
	75	47	18.31	800	1.05	-							
	82	43	16.73	795	1.15	-							
	97	36	14.12	785	1.30	-							
	114	31	12.06	770	1.50	-							
	123	29	11.18	765	1.55	-							
	142	25	9.67	745	1.75	-							
	153	23	9.01	735	1.80	-							
	175	20	7.85	720	2.0	-	**R**	**07**	**EDRS**	**71M4**		10	435
	184	19	7.48	715	2.0	-	**RF**	**07**	**EDRS**	**71M4**		10	436
	201	18	6.83	700	2.2	-							
	239	15	5.76	675	2.4	-							
	279	13	4.92	650	2.7	-							
	301	12	4.57	640	2.8	-							
	348	10	3.95	620	3.1	-							
	374	9.5	3.68	605	3.2	-							
	429	8.2	3.21	585	3.4	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.37	**227**	16	6.07	4200	2.8	-							
	266	13	5.18	4000	5.6	-							
	304	12	4.53	3830	7.1	-							
	320	11	4.30*	3760	7.3	-							
	364	9.7	3.77	3610	9.0	-	**RX**	**67**		**EDRS**	**71M4**	23	425
	430	8.2	3.20*	3420	12	-	**RXF**	**67**		**EDRS**	**71M4**	27	426
	476	7.4	2.89	3310	14	-							
	541	6.5	2.54	3180	18	-							
	573	6.2	2.40*	3120	20	-							
	673	5.3	2.04	2960	24	-							
	250	14	5.50*	3300	2.8	-							
	271	13	5.07	3220	2.8	-							
	316	11	4.35	3060	6.1	-							
	363	9.7	3.79	2930	7.1	-							
	387	9.1	3.55*	2870	7.6	-							
	438	8.1	3.14	2760	8.0	-	**RX**	**57**		**EDRS**	**71M4**	20	423
	472	7.5	2.91	2700	8.9	-	**RXF**	**57**		**EDRS**	**71M4**	22	424
	521	6.8	2.64*	2610	10	-							
	580	6.1	2.37	2520	11	-							
	673	5.2	2.04	2400	13	-							
	716	4.9	1.92*	2360	14	-							
	832	4.2	1.65	2240	16	-							
0.55	**0.26**	16800	5407	120000	1.05	-	**R**	**167R97**		**EDRS**	**80S4**	760	472
	0.30	14300	4650	120000	1.25	-	**RF**	**167R97**		**EDRS**	**80S4**	760	472
	0.34	12400	4129	120000	1.45	-	**RM**	**167R97**		**EDRS**	**80S4**	960	472
	0.38	12300	3754	64000	1.05	-	**R**	**147R77**		**EDRS**	**80S4**	425	472
	0.43	10700	3302	66600	1.20	-	**RF**	**147R77**		**EDRS**	**80S4**	435	472
	0.49	9420	2898	68600	1.40	-	**RM**	**147R77**		**EDRS**	**80S4**	600	472
	0.55	8530	2555	69700	1.50	-							
	0.64	7380	2211	71000	1.75	-							
	0.73	6510	1951	71800	2.0	-	**R**	**147R77**		**EDRS**	**80S4**	425	472
	0.83	5560	1705	72500	2.3	-	**RF**	**147R77**		**EDRS**	**80S4**	435	472
	0.92	4980	1536	73000	2.6	-	**RM**	**147R77**		**EDRS**	**80S4**	600	472
	1.1	4310	1329	73400	3.0	-							
	1.2	3750	1166	73700	3.5	-							
	0.68	6920	2073	55500	1.15	-							
	0.77	6050	1839	57000	1.30	-							
	0.89	5180	1598	58200	1.55	-							
	1.0	4640	1397	58800	1.70	-	**R**	**137R77**		**EDRS**	**80S4**	295	472
	1.2	4040	1226	59500	2.00	-	**RF**	**137R77**		**EDRS**	**80S4**	315	472
	1.3	3620	1090	59900	2.2	-	**RM**	**137R77**		**EDRS**	**80S4**	430	472
	1.5	3160	951	60200	2.5	-							
	1.7	2690	831	60500	3.0	-							
	1.2	3970	1209	31100	1.10	-							
	1.3	3470	1055	33300	1.25	-							
	1.5	3030	919	34800	1.40	-	**R**	**107R77**		**EDRS**	**80S4**	200	472
	1.7	2700	815	35800	1.60	-	**RF**	**107R77**		**EDRS**	**80S4**	210	472
	2.0	2360	717	36300	1.80	-	**RM**	**107R77**		**EDRS**	**80S4**	295	472
	2.3	2060	626	36700	2.1	-							
	1.2	4000	1226	31000	1.05	-							
	1.3	3580	1104	32800	1.20	-	**R**	**107R77**		**EDRS**	**80S4**	205	472
	1.5	3080	939	34700	1.40	-	**RF**	**107R77**		**EDRS**	**80S4**	215	472
	1.7	2680	822	35900	1.60	-	**RM**	**107R77**		**EDRS**	**80S4**	300	472

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.55	**1.7**	2750	824	22600	1.10	-							
	1.9	2460	737	24300	1.20	-							
	2.2	2110	632	25900	1.40	-							
	2.5	1830	560	27000	1.65	-							
	2.9	1590	484	27500	1.90	-	**R**	**97R57**	**EDRS**	**80S4**	135	472
	3.3	1440	431	27700	2.1	-	**RF**	**97R57**	**EDRS**	**80S4**	150	472
	3.7	1260	379	27900	2.4	-	**RM**	**97R57**	**EDRS**	**80S4**	205	472
	4.2	1130	336	28100	2.6	-						
	4.8	980	296	28200	3.0	-						
	5.7	820	249	28400	3.6	-						
	3.1	1510	456	17100	1.00	-						
	3.6	1310	398	18400	1.20	-	**R**	**87R57**	**EDRS**	**80S4**	92	472
	4.0	1160	352	19100	1.35	-	**RF**	**87R57**	**EDRS**	**80S4**	99	472
	4.6	1000	305	19800	1.55	-	**RM**	**87R57**	**EDRS**	**80S4**	130	472
	3.5	1360	400	18100	1.15	-	**R**	**87R57**	**EDRS**	**80S4**	91	472
	3.9	1220	361	18800	1.25	-	**RF**	**87R57**	**EDRS**	**80S4**	98	472
							RM	**87R57**	**EDRS**	**80S4**	130	472
	6.0	800	236	10000	1.00	-	**R**	**77R37**	**EDRS**	**80S4**	52	472
	6.4	750	221	10500	1.10	-	**RF**	**77R37**	**EDRS**	**80S4**	57	472
	7.6	630	186	11400	1.30	-	**RM**	**77R37**	**EDRS**	**80S4**	82	472
	4.9	1070	289.74	28200	2.8	-						
	5.5	940	255.71	28300	3.2	-	**R**	**97**	**EDRS**	**80S4**	110	462
	5.9	890	241.25	28300	3.4	-	**RF**	**97**	**EDRS**	**80S4**	125	463
	6.5	800	216.28	28400	3.7	-	**RM**	**97**	**EDRS**	**80S4**	180	463
	5.7	910	246.54	20000	1.70	-						
	6.5	800	216.54	20000	1.95	-						
	6.9	760	205.71	20000	2.0	-						
	7.8	670	181.77	20000	2.3	-	**R**	**87**	**EDRS**	**80S4**	69	459
	9.1	575	155.34	20000	2.7	-	**RF**	**87**	**EDRS**	**80S4**	76	460
	9.9	525	142.41	20000	2.9	-	**RM**	**87**	**EDRS**	**80S4**	105	460
	11	460	124.97	20000	3.3	-						
	12	435	118.43*	20000	3.5	-						
	14	380	103.65	20000	4.0	-						
	8.5	615	166.59	11400	1.35	-						
	9.7	540	145.67	11900	1.50	-						
	10	510	138.39	12000	1.60	-						
	12	450	121.42	12300	1.80	-	**R**	**77**	**EDRS**	**80S4**	43	456
	14	380	102.99	12600	2.1	-	**RF**	**77**	**EDRS**	**80S4**	49	457
	15	345	92.97	12700	2.3	-	**RM**	**77**	**EDRS**	**80S4**	74	457
	17	300	81.80	12800	2.5	-						
	18	285	77.24	12800	2.6	-						
	22	240	65.77	12900	2.9	-						
	9.0	585	158.14	7710	1.00	-						
	10	510	137.67	8480	1.15	-						
	11	475	128.97	8760	1.25	-						
	12	420	113.94	9180	1.40	-						
	13	390	105.83	9380	1.55	-	**R**	**67**	**EDRS**	**80S4**	37	453
	15	355	95.91	9600	1.65	-	**RF**	**67**	**EDRS**	**80S4**	40	454
	16	315	86.11	9790	1.80	-	**RM**	**67**	**EDRS**	**80S4**	56	454
	19	275	74.17	9990	1.95	-						
	20	255	69.75	10100	2.0	-						
	23	225	61.26	10200	2.1	-						
	25	210	56.89	10200	2.2	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.55	**12**	445	120.63	7120	1.00	-							
	13	395	106.58	7320	1.15	-							
	14	365	98.99	7420	1.20	-							
	16	330	89.71	7540	1.35	-							
	18	295	80.55	7630	1.50	-							
	20	255	69.23	7740	1.75	-	**R**	**57**	**EDRS**	**80S4**	30	450
	22	240	64.85	7700	1.85	-	**RF**	**57**	**EDRS**	**80S4**	34	451
	25	210	57.29	7450	2.1	-	**RM**	**57**	**EDRS**	**80S4**	46	451
	27	198	53.22	7310	2.2	-						
	29	179	48.23	7120	2.4	-						
	33	161	43.30	6910	2.5	-						
	38	138	37.30*	6620	2.8	-						
	40	130	35.07	6510	2.9	-						
	54	98	26.31	5990	4.4	-						
	57	93	24.99*	5900	4.6	-	**R**	**57**	**EDRS**	**80S4**	29	450
	65	81	21.93	5670	5.0	-	**RF**	**57**	**EDRS**	**80S4**	33	451
	76	69	18.60*	5400	5.7	-	**RM**	**57**	**EDRS**	**80S4**	45	451
	19	280	76.23	5510	1.05	-						
	21	250	68.54	5640	1.20	-						
	22	235	64.21	5710	1.25	-						
	25	210	56.73	5820	1.40	-						
	27	196	52.69	5710	1.55	-	**R**	**47**	**EDRS**	**80S4**	25	447
	30	177	47.75	5570	1.70	-	**RF**	**47**	**EDRS**	**80S4**	25	448
	33	159	42.87	5420	1.90	-						
	38	137	36.93	5210	2.1	-						
	41	129	34.73	5120	2.2	-						
	47	111	29.88	4910	2.4	-						
	53	99	26.74	4760	2.6	-						
	61	86	23.28	4580	2.9	-	**R**	**47**	**EDRS**	**80S4**	24	447
	65	81	21.81	4490	3.0	-	**RF**	**47**	**EDRS**	**80S4**	24	448
	29	178	48.08	3770	1.10	-						
	32	166	44.81	3910	1.20	-						
	36	145	39.17	4120	1.30	-						
	39	136	36.72	4210	1.35	-	**R**	**37**	**EDRS**	**80S4**	21	444
	44	120	32.40	4330	1.45	-	**RF**	**37**	**EDRS**	**80S4**	22	445
	49	107	28.73	4410	1.60	-						
	58	91	24.42	4450	1.80	-						
	64	83	22.27	4340	2.1	-						
	73	72	19.31	4170	2.3	-						
	78	67	18.05	4090	2.4	-	**R**	**37**	**EDRS**	**80S4**	21	444
	91	58	15.60	3930	2.7	-	**RF**	**37**	**EDRS**	**80S4**	22	445
	107	49	13.25	3750	3.0	-						
	120	44	11.83	3620	3.3	-						
	44	120	32.47	2780	1.05	-						
	49	107	28.78	2910	1.15	-	**R**	**27**	**EDRS**	**80S4**	15	441
	58	91	24.47	2940	1.30	-	**RF**	**27**	**EDRS**	**80S4**	15	442

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.55	**63**	83	22.32	2880	1.45	-							
	73	72	19.35	2780	1.65	-							
	78	67	18.08	2740	1.70	-							
	91	58	15.63	2640	1.90	-							
	107	49	13.28*	2520	2.1	-							
	119	44	11.86	2450	2.3	-							
	140	38	10.13	2340	2.6	-							
	150	35	9.41	2270	2.6	-	**R**	**27**		**EDRS**	**80S4**	15	441
	173	30	8.16	2180	2.8	-	**RF**	**27**		**EDRS**	**80S4**	15	442
	186	28	7.63*	2140	3.0	-							
	215	24	6.59	2050	3.3	-							
	253	21	5.60*	1960	3.6	-							
	283	19	5.00*	1890	3.9	-							
	331	16	4.27	1800	4.4	-							
	354	15	4.00*	1770	4.7	-							
	420	12	3.37	1680	5.3	-							
	72	73	19.71	1580	1.05	-							
	83	63	16.99	1550	1.15	-							
	89	59	15.84	1540	1.20	-							
	102	51	13.84	1500	1.35	-							
	109	48	12.98	1490	1.40	-							
	124	42	11.45	1450	1.55	-							
	139	38	10.15	1420	1.70	-							
	164	32	8.63	1370	1.95	-	**R**	**17**		**EDRS**	**80S4**	13	438
	187	28	7.55	1280	1.65	-	**RF**	**17**		**EDRS**	**80S4**	13	439
	201	26	7.04	1260	1.70	-							
	230	23	6.15	1230	1.90	-							
	245	21	5.76	1210	1.95	-							
	278	19	5.09	1170	2.1	-							
	314	17	4.51	1140	2.3	-							
	369	14	3.83	1100	2.7	-							
	273	19	5.18	3920	3.9	-							
	313	17	4.53	3760	4.9	-							
	329	16	4.30*	3700	5.0	-							
	375	14	3.77	3550	6.2	-							
	442	12	3.20*	3360	8.4	-							
	490	11	2.89	3260	9.9	-	**RX**	**67**		**EDRS**	**80S4**	23	425
	557	9.4	2.54	3120	13	-	**RXF**	**67**		**EDRS**	**80S4**	27	426
	590	8.9	2.40*	3070	14	-							
	692	7.6	2.04	2910	17	-							
	762	6.9	1.86	2820	18	-							
	880	6.0	1.61	2690	19	-							
	325	16	4.35	3000	4.2	-							
	373	14	3.79	2870	4.9	-							
	399	13	3.55*	2810	5.2	-							
	451	12	3.14	2710	5.6	-							
	486	11	2.91	2640	6.2	-							
	536	9.8	2.64*	2560	7.0	-	**RX**	**57**		**EDRS**	**80S4**	21	423
	597	8.8	2.37	2480	7.8	-	**RXF**	**57**		**EDRS**	**80S4**	23	424
	693	7.6	2.04	2360	9.1	-							
	737	7.1	1.92*	2320	9.7	-							
	856	6.1	1.65	2210	11	-							
	959	5.5	1.48	2130	12	-							
	1085	4.8	1.30	2040	13	-							
0.75	**0.35**	17300	4129	120000	1.05	-	**R**	**167R97**		**EDRE**	**80M4**	760	472
							RF	**167R97**		**EDRE**	**80M4**	770	472
							RM	**167R97**		**EDRE**	**80M4**	960	472

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.75	**0.54**	11600	2657	120000	1.55	-							
	0.62	10000	2333	120000	1.80	-		**R**	**167R97**	**EDRE**	**80M4**	760	472
	0.69	8880	2085	120000	2.0	-		**RF**	**167R97**	**EDRE**	**80M4**	760	472
	1.0	6280	1438	120000	2.9	-		**RM**	**167R97**	**EDRE**	**80M4**	960	472
	0.50	12800	2898	62900	1.00	-		**R**	**147R77**	**EDRE**	**80M4**	430	472
								RF	**147R77**	**EDRE**	**80M4**	435	472
								RM	**147R77**	**EDRE**	**80M4**	600	472
	0.56	11600	2555	65300	1.10	-							
	0.65	10000	2211	67700	1.30	-							
	0.74	8860	1951	69300	1.45	-		**R**	**147R77**	**EDRE**	**80M4**	430	472
	0.84	7610	1705	70700	1.70	-		**RF**	**147R77**	**EDRE**	**80M4**	435	472
	0.93	6830	1536	71500	1.90	-		**RM**	**147R77**	**EDRE**	**80M4**	600	472
	1.1	5910	1329	72300	2.2	-							
	1.2	5150	1166	72800	2.5	-							
	0.90	7090	1586	55200	1.15	-		**R**	**137R77**	**EDRE**	**80M4**	285	472
	1.0	6320	1391	56500	1.25	-		**RF**	**137R77**	**EDRE**	**80M4**	310	472
	1.1	5680	1256	57500	1.40	-		**RM**	**137R77**	**EDRE**	**80M4**	420	472
	0.90	7110	1598	55200	1.10	-							
	1.0	6320	1397	56500	1.25	-							
	1.2	5520	1226	57700	1.45	-		**R**	**137R77**	**EDRE**	**80M4**	295	472
	1.3	4930	1090	58500	1.60	-		**RF**	**137R77**	**EDRE**	**80M4**	320	472
	1.5	4300	951	59200	1.85	-		**RM**	**137R77**	**EDRE**	**80M4**	430	472
	1.7	3700	831	59800	2.2	-							
	2.0	3220	730	60200	2.5	-							
	1.6	4140	919	30300	1.05	-		**R**	**107R77**	**EDRE**	**80M4**	205	472
	1.8	3690	815	32400	1.15	-		**RF**	**107R77**	**EDRE**	**80M4**	210	472
								RM	**107R77**	**EDRE**	**80M4**	300	472
	1.5	4210	939	29900	1.00	-							
	1.8	3670	822	32500	1.15	-		**R**	**107R77**	**EDRE**	**80M4**	210	472
	3.9	1640	369	37100	2.6	-		**RF**	**107R77**	**EDRE**	**80M4**	215	472
	4.4	1430	323	37300	3.0	-		**RM**	**107R77**	**EDRE**	**80M4**	305	472
	2.3	2870	632	21800	1.05	-							
	2.6	2510	560	24000	1.20	-							
	3.0	2180	484	25600	1.40	-							
	3.3	1960	431	26500	1.50	-		**R**	**97R57**	**EDRE**	**80M4**	135	472
	3.8	1720	379	27300	1.75	-		**RF**	**97R57**	**EDRE**	**80M4**	155	472
	4.3	1530	336	27600	1.95	-		**RM**	**97R57**	**EDRE**	**80M4**	205	472
	4.8	1340	296	27900	2.2	-							
	5.8	1120	249	28100	2.7	-							
	4.7	1360	305	18100	1.15	-		**R**	**87R57**	**EDRE**	**80M4**	95	472
	5.4	1200	268	18900	1.30	-		**RF**	**87R57**	**EDRE**	**80M4**	100	472
	6.1	1060	236	19600	1.45	-		**RM**	**87R57**	**EDRE**	**80M4**	130	472
	4.8	1370	300	18000	1.10	-		**R**	**87R57**	**EDRE**	**80M4**	93	472
	5.6	1160	256	19100	1.35	-		**RF**	**87R57**	**EDRE**	**80M4**	100	472
								RM	**87R57**	**EDRE**	**80M4**	130	472
	5.0	1440	289.74	27700	2.1	-							
	5.6	1270	255.71	27900	2.4	-							
	6.0	1200	241.25	28000	2.5	-		**R**	**97**	**EDRE**	**80M4**	115	462
	6.6	1070	216.28	28100	2.8	-		**RF**	**97**	**EDRE**	**80M4**	130	463
	7.7	920	186.30	28300	3.2	-		**RM**	**97**	**EDRE**	**80M4**	180	463
	8.4	840	170.02	28400	3.5	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.75	**5.8**	1230	246.54	18800	1.25	-							
	6.6	1080	216.54	19500	1.45	-							
	7.0	1020	205.71	19700	1.50	-							
	7.9	900	181.77	20000	1.70	-							
	9.2	775	155.34	20000	2.0	-	**R**	**87**	**EDRE**	**80M4**		72	459
	10	710	142.41	20000	2.2	-	**RF**	**87**	**EDRE**	**80M4**		79	460
	11	620	124.97	20000	2.5	-	**RM**	**87**	**EDRE**	**80M4**		110	460
	12	590	118.43*	20000	2.6	-							
	14	515	103.65	20000	3.0	-							
	15	465	93.38	20000	3.3	-							
	9.8	725	145.67	10700	1.15	-							
	10	690	138.39	11000	1.20	-							
	12	605	121.42	11500	1.35	-							
	14	510	102.99	12000	1.60	-							
	15	460	92.97	12200	1.70	-							
	18	405	81.80	12500	1.85	-	**R**	**77**	**EDRE**	**80M4**		46	456
	19	385	77.24	12500	1.95	-	**RF**	**77**	**EDRE**	**80M4**		51	457
	22	325	65.77	12700	2.2	-	**RM**	**77**	**EDRE**	**80M4**		76	457
	25	285	57.68	12800	2.7	-							
	28	255	52.07	12900	2.9	-							
	31	225	45.81	13000	3.2	-							
	33	215	43.26	13000	3.3	-							
	13	565	113.94	7920	1.05	-							
	14	525	105.83	8320	1.15	-							
	15	475	95.91	8760	1.25	-							
	17	425	86.11	9140	1.35	-							
	19	370	74.17	9520	1.45	-	**R**	**67**	**EDRE**	**80M4**		40	453
	21	345	69.75	9640	1.50	-	**RF**	**67**	**EDRE**	**80M4**		43	454
	23	305	61.26	9860	1.55	-	**RM**	**67**	**EDRE**	**80M4**		58	454
	25	280	56.89	9960	1.60	-							
	28	255	51.56	10100	1.70	-							
	31	230	46.29	10200	1.85	-							
	16	445	89.71	7120	1.00	-							
	18	400	80.55	7300	1.10	-							
	21	345	69.23	7470	1.30	-							
	22	320	64.85	7360	1.40	-							
	25	285	57.29	7150	1.55	-							
	27	265	53.22	7030	1.65	-	**R**	**57**	**EDRE**	**80M4**		33	450
	30	240	48.23	6860	1.75	-	**RF**	**57**	**EDRE**	**80M4**		36	451
	33	215	43.30	6670	1.85	-	**RM**	**57**	**EDRE**	**80M4**		48	451
	38	186	37.30*	6420	2.1	-							
	41	175	35.07	6320	2.2	-							
	48	151	30.18	6060	2.4	-							
	53	135	26.97	5880	2.6	-							
	55	131	26.31	5840	3.3	-							
	57	125	24.99*	5760	3.4	-	**R**	**57**	**EDRE**	**80M4**		32	450
	65	109	21.93	5540	3.8	-	**RF**	**57**	**EDRE**	**80M4**		35	451
	77	93	18.60*	5290	4.3	-	**RM**	**57**	**EDRE**	**80M4**		47	451
	25	280	56.73	5210	1.05	-							
	27	260	52.69	5400	1.15	-							
	30	235	47.75	5320	1.25	-							
	33	210	42.87	5190	1.40	-							
	39	184	36.93	5010	1.55	-	**R**	**47**	**EDRE**	**80M4**		28	447
	41	173	34.73	4930	1.60	-	**RF**	**47**	**EDRE**	**80M4**		28	448
	48	149	29.88	4750	1.80	-							
	54	133	26.70	4610	1.95	-							
	61	118	23.59	4460	2.1	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.75	**54**	134	26.74	4610	1.95	-							
	62	116	23.28	4450	2.2	-							
	66	109	21.81	4370	2.2	-	**R**	**47**	**EDRE**	**80M4**		27	447
	74	96	19.27	4220	2.5	-	**RF**	**47**	**EDRE**	**80M4**		27	448
	80	89	17.89	4140	2.6	-							
	88	81	16.22	4020	2.8	-							
	39	183	36.72	2840	1.00	-							
	44	162	32.40	3120	1.10	-	**R**	**37**	**EDRE**	**80M4**		23	444
	50	143	28.73	3340	1.20	-	**RF**	**37**	**EDRE**	**80M4**		25	445
	59	122	24.42	3560	1.35	-							
	64	111	22.27	3650	1.55	-							
	74	96	19.31	3750	1.70	-							
	80	90	18.05	3780	1.80	-							
	92	78	15.60	3810	2.00	-	**R**	**37**	**EDRE**	**80M4**		23	444
	108	66	13.25	3650	2.2	-	**RF**	**37**	**EDRE**	**80M4**		25	445
	121	59	11.83	3540	2.4	-							
	142	50	10.11	3380	2.8	-							
	152	47	9.47	3320	2.9	-							
	64	111	22.32	2300	1.10	-							
	74	97	19.35	2450	1.20	-							
	79	90	18.08	2500	1.25	-							
	92	78	15.63	2520	1.40	-							
	108	66	13.28*	2430	1.55	-							
	121	59	11.86	2360	1.70	-							
	142	50	10.13	2270	1.95	-	**R**	**27**	**EDRE**	**80M4**		17	441
	152	47	9.41	2190	1.90	-	**RF**	**27**	**EDRE**	**80M4**		17	442
	176	41	8.16	2110	2.1	-							
	188	38	7.63*	2070	2.2	-							
	218	33	6.59	1990	2.4	-							
	256	28	5.60*	1900	2.7	-							
	287	25	5.00*	1850	2.9	-							
	104	69	13.84	1370	1.00	-							
	111	65	12.98	1360	1.05	-							
	125	57	11.45	1340	1.15	-							
	141	51	10.15	1320	1.25	-							
	166	43	8.63	1280	1.45	-							
	190	38	7.55	1190	1.20	-	**R**	**17**	**EDRE**	**80M4**		16	438
	204	35	7.04	1180	1.30	-	**RF**	**17**	**EDRE**	**80M4**		16	439
	233	31	6.15	1150	1.40	-							
	249	29	5.76	1140	1.45	-							
	282	25	5.09	1110	1.55	-							
	318	22	4.51	1080	1.75	-							
	374	19	3.83	1040	2.00	-							
	277	26	5.18	3860	2.9	-							
	317	23	4.53	3700	3.6	-							
	334	22	4.30*	3640	3.7	-							
	380	19	3.77	3500	4.6	-							
	448	16	3.20*	3320	6.2	-							
	497	14	2.89	3220	7.4	-	**RX**	**67**	**EDRE**	**80M4**		26	425
	565	13	2.54	3090	9.3	-	**RXF**	**67**	**EDRE**	**80M4**		30	426
	598	12	2.40*	3030	10	-							
	702	10	2.04	2880	13	-							
	773	9.3	1.86	2790	13	-							
	892	8.0	1.61	2670	14	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.75	**330**	22	4.35	2940	3.1	-							
	379	19	3.79	2820	3.6	-							
	404	18	3.55*	2770	3.9	-							
	458	16	3.14	2660	4.1	-							
	493	14	2.91	2600	4.6	-							
	544	13	2.64*	2520	5.2	-	**RX**	**57**		**EDRE**	**80M4**	23	423
	605	12	2.37	2440	5.8	-	**RXF**	**57**		**EDRE**	**80M4**	25	424
	703	10	2.04	2330	6.8	-							
	747	9.6	1.92*	2280	7.2	-							
	869	8.2	1.65	2180	8.4	-							
	972	7.4	1.48	2100	9.2	-							
	1100	6.5	1.30	2020	9.7	-							
1.1	**0.53**	17600	2657	120000	1.00	-							
	0.61	15300	2333	120000	1.15	-							
	0.68	13600	2085	120000	1.30	-							
	0.76	12100	1877	120000	1.50	-	**R**	**167R97**		**EDRE**	**90M4**	760	472
	0.85	10800	1670	120000	1.65	-	**RF**	**167R97**		**EDRE**	**90M4**	770	472
	0.99	9540	1438	120000	1.90	-	**RM**	**167R97**		**EDRE**	**90M4**	960	472
	1.1	8480	1279	120000	2.1	-							
	1.3	7390	1123	120000	2.4	-							
	0.83	11400	1705	65500	1.15	-							
	0.92	10300	1536	67300	1.25	-							
	1.1	8920	1329	69200	1.45	-							
	1.2	7790	1166	70500	1.65	-	**R**	**147R77**		**EDRE**	**90M4**	430	472
	1.4	6850	1029	71500	1.90	-	**RF**	**147R77**		**EDRE**	**90M4**	440	472
	1.6	5940	889	72300	2.2	-	**RM**	**147R77**		**EDRE**	**90M4**	610	472
	1.8	5220	784	72800	2.5	-							
	2.0	4600	695	73200	2.8	-							
	1.3	7480	1105	54500	1.05	-	**R**	**137R77**		**EDRE**	**90M4**	290	472
	1.4	7050	1043	55300	1.15	-	**RF**	**137R77**		**EDRE**	**90M4**	315	472
	1.6	5980	888	57100	1.35	-	**RM**	**137R77**		**EDRE**	**90M4**	425	472
	1.3	7400	1090	54600	1.10	-							
	1.5	6460	951	56300	1.25	-							
	1.7	5580	831	57600	1.45	-	**R**	**137R77**		**EDRE**	**90M4**	300	472
	2.0	4870	730	58600	1.65	-	**RF**	**137R77**		**EDRE**	**90M4**	325	472
	2.3	4160	629	59300	1.90	-	**RM**	**137R77**		**EDRE**	**90M4**	435	472
	2.5	3770	560	59700	2.1	-							
	2.9	3250	490	60200	2.5	-							
	2.3	4090	614	30500	1.05	-							
	2.6	3610	544	32700	1.20	-							
	2.9	3260	492	34000	1.30	-							
	3.4	2760	417	35600	1.55	-	**R**	**107R77**		**EDRE**	**90M4**	215	472
	3.8	2470	369	36200	1.75	-	**RF**	**107R77**		**EDRE**	**90M4**	220	472
	4.4	2160	323	36600	2.00	-	**RM**	**107R77**		**EDRE**	**90M4**	305	472
	5.0	1900	285	36900	2.3	-							
	5.6	1670	253	37100	2.6	-							
	3.3	2940	431	21300	1.00	-							
	3.7	2580	379	23600	1.15	-							
	4.2	2290	336	25100	1.30	-	**R**	**97R57**		**EDRE**	**90M4**	140	472
	4.8	2010	296	26300	1.50	-	**RF**	**97R57**		**EDRE**	**90M4**	160	472
	5.7	1680	249	27400	1.80	-	**RM**	**97R57**		**EDRE**	**90M4**	210	472
	6.1	1570	234	27500	1.90	-							
	6.8	1400	209	27800	2.1	-							
	6.8	1400	209	17900	1.10	-	**R**	**87R57**		**EDRE**	**90M4**	99	472
							RF	**87R57**		**EDRE**	**90M4**	105	472
							RM	**87R57**		**EDRE**	**90M4**	135	472

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
1.1	**7.3**	1340	195	18200	1.15	-		**R**	**87R57**	**EDRE**	**90M4**	97	472
								RF	**87R57**	**EDRE**	**90M4**	105	472
								RM	**87R57**	**EDRE**	**90M4**	135	472
	5.6	1890	255.71	26800	1.60	-							
	5.9	1780	241.25	27200	1.70	-							
	6.6	1590	216.28	27500	1.90	-							
	7.6	1370	186.30	27800	2.2	-		**R**	**97**	**EDRE**	**90M4**	115	462
	8.4	1250	170.02	28000	2.4	-		**RF**	**97**	**EDRE**	**90M4**	135	463
	9.4	1110	150.78	28100	2.7	-		**RM**	**97**	**EDRE**	**90M4**	185	463
	11	930	126.75	28300	3.2	-							
	12	860	116.48	28300	3.5	-							
	6.9	1520	205.71	17100	1.00	-							
	7.8	1340	181.77	18200	1.15	-							
	9.1	1140	155.34	19200	1.35	-							
	10.0	1050	142.41	19600	1.45	-							
	11	920	124.97	20000	1.70	-							
	12	870	118.43*	20000	1.75	-		**R**	**87**	**EDRE**	**90M4**	76	459
	14	765	103.65	20000	2.0	-		**RF**	**87**	**EDRE**	**90M4**	83	460
	15	690	93.38	20000	2.2	-		**RM**	**87**	**EDRE**	**90M4**	115	460
	17	605	81.92	20000	2.6	-							
	20	535	72.57	20000	2.9	-							
	22	470	63.68*	20000	3.1	-							
	24	445	60.35*	20000	3.2	-							
	27	390	52.82	20000	3.6	-							
	14	760	102.99	10400	1.10	-							
	15	685	92.97	11000	1.15	-							
	17	605	81.80	11500	1.25	-							
	18	570	77.24	11700	1.30	-							
	22	485	65.77	12100	1.45	-		**R**	**77**	**EDRE**	**90M4**	49	456
	25	425	57.68	12400	1.80	-		**RF**	**77**	**EDRE**	**90M4**	55	457
	27	385	52.07	12500	1.95	-		**RM**	**77**	**EDRE**	**90M4**	80	457
	31	335	45.81	12700	2.1	-							
	33	320	43.26	12700	2.2	-							
	39	270	36.83	12900	2.5	-							
	42	245	33.47	12900	2.7	-							
	20	515	69.75	8440	1.00	-							
	23	450	61.26	8960	1.05	-							
	25	420	56.89	9200	1.10	-							
	28	380	51.56	9450	1.15	-		**R**	**67**	**EDRE**	**90M4**	43	453
	31	340	46.29	9670	1.25	-		**RF**	**67**	**EDRE**	**90M4**	46	454
	36	295	39.88*	9910	1.40	-		**RM**	**67**	**EDRE**	**90M4**	62	454
	38	275	37.50	9980	1.45	-							
	44	235	32.27	10100	1.60	-							
	49	210	28.83	10200	1.75	-							
	50	205	28.13	10200	2.5	-							
	53	198	26.72	10100	2.6	-		**R**	**67**	**EDRE**	**90M4**	42	453
	61	173	23.44	9690	2.9	-		**RF**	**67**	**EDRE**	**90M4**	46	454
	71	147	19.89	9230	3.2	-		**RM**	**67**	**EDRE**	**90M4**	61	454
	25	420	57.29	6690	1.05	-							
	27	390	53.22	6600	1.10	-							
	29	355	48.23	6470	1.20	-							
	33	320	43.30	6330	1.25	-		**R**	**57**	**EDRE**	**90M4**	37	450
	38	275	37.30*	6120	1.40	-		**RF**	**57**	**EDRE**	**90M4**	40	451
	40	255	35.07	6040	1.45	-		**RM**	**57**	**EDRE**	**90M4**	52	451
	47	220	30.18	5830	1.65	-							
	53	200	26.97	5670	1.80	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
1.1	**54**	195	26.31	5630	2.2	-							
	57	185	24.99*	5560	2.3	-	**R**	**57**	**EDRE**	**90M4**		36	450
	65	162	21.93	5380	2.5	-	**RF**	**57**	**EDRE**	**90M4**		39	451
	76	138	18.60*	5150	2.9	-	**RM**	**57**	**EDRE**	**90M4**		51	451
	85	124	16.79	5000	3.1	-							
	38	270	36.93	3870	1.05	-							
	41	255	34.73	4050	1.10	-							
	48	220	29.88	4430	1.20	-	**R**	**47**	**EDRE**	**90M4**		31	447
	53	198	26.70	4400	1.30	-	**RF**	**47**	**EDRE**	**90M4**		32	448
	60	174	23.59	4270	1.45	-							
	61	172	23.28	4260	1.45	-							
	65	161	21.81	4190	1.50	-							
	74	142	19.27	4070	1.70	-							
	79	132	17.89	4000	1.75	-							
	88	120	16.22	3900	1.90	-	**R**	**47**	**EDRE**	**90M4**		31	447
	98	108	14.56	3790	2.0	-	**RF**	**47**	**EDRE**	**90M4**		31	448
	113	93	12.54	3640	2.3	-							
	120	87	11.79	3580	2.4	-							
	140	75	10.15	3430	2.7	-							
	157	67	9.07	3320	3.0	-							
	74	143	19.31	2460	1.15	-							
	79	134	18.05	2580	1.20	-							
	91	115	15.60	2790	1.35	-							
	107	98	13.25	2960	1.50	-							
	120	88	11.83	3040	1.65	-							
	140	75	10.11	3120	1.85	-	**R**	**37**	**EDRE**	**90M4**		27	444
	150	70	9.47	3140	1.95	-	**RF**	**37**	**EDRE**	**90M4**		28	445
	178	59	7.97	3080	2.2	-							
	213	49	6.67	2910	2.2	-							
	251	42	5.67	2780	2.4	-							
	281	37	5.06	2690	2.6	-							
	107	98	13.28*	1830	1.05	-							
	120	88	11.86	1940	1.15	-							
	140	75	10.13	2060	1.30	-							
	151	70	9.41	1610	1.30	-							
	174	60	8.16	1740	1.45	-							
	186	56	7.63*	1790	1.50	-	**R**	**27**	**EDRE**	**90M4**		21	441
	215	49	6.59	1870	1.65	-	**RF**	**27**	**EDRE**	**90M4**		21	442
	254	41	5.60*	1840	1.85	-							
	284	37	5.00*	1780	1.95	-							
	332	32	4.27	1710	2.2	-							
	355	30	4.00*	1680	2.3	-							
	421	25	3.37	1610	2.6	-							
	252	42	5.63	5650	2.6	-							
	265	40	5.35*	5560	2.6	-	**RX**	**77**	**EDRE**	**90M4**		40	427
	300	35	4.73	5360	3.5	-	**RXF**	**77**	**EDRE**	**90M4**		42	428
	314	34	4.53	3640	2.4	-							
	330	32	4.30*	3590	2.5	-							
	376	28	3.77	3450	3.1	-							
	444	24	3.20*	3280	4.2	-							
	492	21	2.89	3180	5.0	-							
	559	19	2.54	3060	6.3	-	**RX**	**67**	**EDRE**	**90M4**		30	425
	592	18	2.40*	3000	6.9	-	**RXF**	**67**	**EDRE**	**90M4**		34	426
	695	15	2.04	2860	8.5	-							
	765	14	1.86	2770	9.0	-							
	883	12	1.61	2650	9.6	-							
	1015	10	1.40*	2530	10	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
1.1	**375**	28	3.79	2770	2.5	-							
	400	26	3.55*	2720	2.6	-							
	453	23	3.14	2620	2.8	-							
	487	22	2.91	2560	3.1	-							
	538	20	2.64*	2490	3.5	-							
	599	18	2.37	2410	3.9	-	**RX**	**57**	**EDRE**	**90M4**	27	423
	696	15	2.04	2300	4.6	-	**RXF**	**57**	**EDRE**	**90M4**	29	424
	740	14	1.92*	2260	4.9	-							
	859	12	1.65	2160	5.7	-							
	962	11	1.48	2080	6.2	-							
	1090	9.6	1.30	2000	6.6	-							
1.5	**0.76**	16700	1877	120000	1.05	-							
	0.86	14900	1670	120000	1.20	-							
	0.99	13000	1438	120000	1.40	-	**R**	**167R97**	**EDRE**	**90L4**	760	472
	1.1	11600	1279	120000	1.55	-	**RF**	**167R97**	**EDRE**	**90L4**	770	472
	1.3	10100	1123	120000	1.75	-	**RM**	**167R97**	**EDRE**	**90L4**	960	472
	1.4	9040	999	120000	2.00	-							
	3.4	3850	426	73600	3.4	-	**R**	**147R87**	**EDRE**	**90L4**	455	472
	3.9	3330	368	73900	3.9	-	**RF**	**147R87**	**EDRE**	**90L4**	465	472
							RM	**147R87**	**EDRE**	**90L4**	630	472
	1.1	12200	1329	64200	1.05	-							
	1.2	10600	1166	66800	1.20	-							
	1.4	9380	1029	68600	1.40	-							
	1.6	8130	889	70200	1.60	-	**R**	**147R77**	**EDRE**	**90L4**	435	472
	1.8	7150	784	71200	1.80	-	**RF**	**147R77**	**EDRE**	**90L4**	445	472
	2.1	6320	695	71900	2.1	-	**RM**	**147R77**	**EDRE**	**90L4**	610	472
	2.3	5690	619	72400	2.3	-							
	2.6	5120	558	72900	2.5	-							
	2.0	6400	699	56400	1.25	-	**R**	**137R77**	**EDRE**	**90L4**	295	472
	2.4	5550	609	57700	1.45	-	**RF**	**137R77**	**EDRE**	**90L4**	315	472
							RM	**137R77**	**EDRE**	**90L4**	430	472
	1.7	7630	831	54200	1.05	-							
	2.0	6670	730	55900	1.20	-							
	2.3	5710	629	57400	1.40	-							
	2.6	5150	560	58200	1.55	-	**R**	**137R77**	**EDRE**	**90L4**	305	472
	2.9	4460	490	59000	1.80	-	**RF**	**137R77**	**EDRE**	**90L4**	325	472
	3.3	3890	428	59600	2.0	-	**RM**	**137R77**	**EDRE**	**90L4**	435	472
	3.8	3500	381	59900	2.3	-							
	4.4	2970	323	60400	2.7	-							
	3.4	3790	417	31900	1.15	-	**R**	**107R77**	**EDRE**	**90L4**	215	472
	3.9	3380	369	33600	1.25	-	**RF**	**107R77**	**EDRE**	**90L4**	220	472
	4.4	2960	323	35100	1.45	-	**RM**	**107R77**	**EDRE**	**90L4**	310	472
	4.8	2740	296	22700	1.10	-							
	5.7	2300	249	25100	1.30	-	**R**	**97R57**	**EDRE**	**90L4**	145	472
	6.1	2140	234	25800	1.40	-	**RF**	**97R57**	**EDRE**	**90L4**	160	472
	6.8	1920	209	26700	1.55	-	**RM**	**97R57**	**EDRE**	**90L4**	210	472
	5.6	2560	255.71	23700	1.15	-							
	5.9	2410	241.25	24500	1.25	-							
	6.6	2160	216.28	25700	1.40	-							
	7.7	1860	186.30	26900	1.60	-							
	8.4	1700	170.02	27300	1.75	-	**R**	**97**	**EDRE**	**90L4**	120	462
	9.5	1510	150.78	27600	2.00	-	**RF**	**97**	**EDRE**	**90L4**	135	463
	11	1260	126.75	27900	2.4	-	**RM**	**97**	**EDRE**	**90L4**	190	463
	12	1160	116.48	28100	2.6	-							
	14	1030	103.44	28200	2.9	-							
	15	920	92.48	28300	3.2	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
1.5	**9.2**	1550	155.34	16900	1.00	-							
	10	1420	142.41	17700	1.10	-							
	11	1250	124.97	18700	1.25	-							
	12	1180	118.43*	19000	1.30	-							
	14	1030	103.65	19700	1.50	-							
	15	930	93.38	20000	1.65	-							
	17	820	81.92	20000	1.90	-	**R**	**87**	**EDRE**	**90L4**	79	459
	20	725	72.57	20000	2.1	-	**RF**	**87**	**EDRE**	**90L4**	86	460
	22	635	63.68*	20000	2.3	-	**RM**	**87**	**EDRE**	**90L4**	115	460
	24	600	60.35*	20000	2.4	-						
	27	525	52.82	20000	2.6	-						
	30	475	47.58	20000	2.8	-						
	34	415	41.74	20000	3.1	-						
	39	365	36.84*	19500	3.4	-						
	22	655	65.77	11200	1.05	-						
	25	575	57.68	11700	1.35	-						
	27	520	52.07	12000	1.45	-						
	31	455	45.81	12300	1.60	-	**R**	**77**	**EDRE**	**90L4**	52	456
	33	430	43.26	12400	1.65	-	**RF**	**77**	**EDRE**	**90L4**	58	457
	39	365	36.83	12600	1.85	-	**RM**	**77**	**EDRE**	**90L4**	83	457
	43	335	33.47	12700	1.95	-						
	49	290	29.00	12500	2.2	-						
	57	250	25.23	12000	2.4	-						
	61	230	23.37	11700	2.7	-	**R**	**77**	**EDRE**	**90L4**	51	456
	67	210	21.43	11400	2.8	-	**RF**	**77**	**EDRE**	**90L4**	57	457
	76	188	18.80	11000	3.1	-	**RM**	**77**	**EDRE**	**90L4**	82	457
	36	395	39.88*	9340	1.05	-						
	38	375	37.50	9490	1.05	-	**R**	**67**	**EDRE**	**90L4**	46	453
	44	320	32.27	9770	1.20	-	**RF**	**67**	**EDRE**	**90L4**	49	454
	50	285	28.83	9930	1.30	-	**RM**	**67**	**EDRE**	**90L4**	65	454
	51	280	28.13	9950	1.85	-						
	54	265	26.72	9810	1.90	-	**R**	**67**	**EDRE**	**90L4**	45	453
	61	230	23.44	9460	2.1	-	**RF**	**67**	**EDRE**	**90L4**	48	454
	72	199	19.89	9030	2.4	-	**RM**	**67**	**EDRE**	**90L4**	64	454
	80	180	17.95	8770	2.6	-						
	38	370	37.30*	5760	1.05	-						
	41	350	35.07	5690	1.10	-	**R**	**57**	**EDRE**	**90L4**	40	450
	47	300	30.18	5530	1.20	-	**RF**	**57**	**EDRE**	**90L4**	43	451
	53	270	26.97	5400	1.30	-	**RM**	**57**	**EDRE**	**90L4**	55	451
	54	260	26.31	5370	1.65	-						
	57	250	24.99*	5310	1.70	-						
	65	215	21.93	5160	1.85	-						
	77	186	18.60*	4960	2.1	-	**R**	**57**	**EDRE**	**90L4**	39	450
	85	168	16.79	4840	2.3	-	**RF**	**57**	**EDRE**	**90L4**	42	451
	97	148	14.77*	4680	2.5	-	**RM**	**57**	**EDRE**	**90L4**	54	451
	103	140	13.95*	4610	2.6	-						
	120	119	11.88	4420	3.0	-						
	61	235	23.59	3280	1.05	-	**R**	**47**	**EDRE**	**90L4**	34	447
							RF	**47**	**EDRE**	**90L4**	34	448

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
1.5	**61**	230	23.28	3320	1.05	-							
	66	215	21.81	3490	1.10	-							
	74	193	19.27	3750	1.25	-							
	80	179	17.89	3810	1.30	-							
	88	162	16.22	3730	1.40	-							
	98	146	14.56	3640	1.50	-							
	114	126	12.54	3510	1.65	-							
	121	118	11.79	3460	1.80	-							
	141	102	10.15	3330	2.0	-	**R**	**47**		**EDRE**	**90L4**	34	447
	158	91	9.07	3230	2.2	-	**RF**	**47**		**EDRE**	**90L4**	34	448
	178	80	8.01	3120	2.4	-							
	184	78	7.76*	3050	2.1	-							
	205	70	6.96	2970	2.2	-							
	238	60	6.00	2850	2.5	-							
	254	56	5.64*	2800	2.6	-							
	295	49	4.85	2690	2.9	-							
	330	43	4.34	2600	3.2	-							
	373	38	3.83	2510	3.5	-							
	108	133	13.25	1960	1.10	-							
	121	118	11.83	2160	1.20	-							
	141	101	10.11	2360	1.35	-							
	151	95	9.47	2430	1.45	-							
	179	80	7.97	2570	1.65	-							
	214	67	6.67	2340	1.60	-	**R**	**37**		**EDRE**	**90L4**	30	444
	252	57	5.67	2430	1.80	-	**RF**	**37**		**EDRE**	**90L4**	31	445
	283	51	5.06	2470	1.95	-							
	331	43	4.32	2500	2.2	-							
	353	40	4.05	2460	2.3	-							
	419	34	3.41	2350	2.6	-							
	175	82	8.16	1010	1.05	-							
	188	76	7.63*	1110	1.10	-							
	217	66	6.59	1280	1.20	-							
	255	56	5.60*	1430	1.35	-	**R**	**27**		**EDRE**	**90L4**	24	441
	286	50	5.00*	1510	1.45	-	**RF**	**27**		**EDRE**	**90L4**	24	442
	335	43	4.27	1590	1.65	-							
	358	40	4.00*	1620	1.70	-							
	424	34	3.37	1550	1.95	-							
	254	56	5.63	5560	1.95	-							
	267	54	5.35*	5470	1.90	-							
	302	47	4.73	5270	2.6	-							
	354	40	4.04*	5030	3.5	-							
	386	37	3.70	4900	4.1	-	**RX**	**77**		**EDRE**	**90L4**	42	427
	440	33	3.25*	4700	5.6	-	**RXF**	**77**		**EDRE**	**90L4**	45	428
	464	31	3.08*	4620	6.2	-							
	530	27	2.70	4430	8.0	-							
	589	24	2.43	4290	8.4	-							
	316	45	4.53	3560	1.80	-							
	333	43	4.30*	3510	1.85	-							
	379	38	3.77	3380	2.3	-							
	447	32	3.20*	3220	3.1	-							
	495	29	2.89	3120	3.7	-							
	563	26	2.54	3010	4.6	-	**RX**	**67**		**EDRE**	**90L4**	33	425
	596	24	2.40*	2950	5.1	-	**RXF**	**67**		**EDRE**	**90L4**	37	426
	700	20	2.04	2810	6.2	-							
	770	19	1.86	2730	6.6	-							
	889	16	1.61	2610	7.1	-							
	1020	14	1.40*	2500	7.4	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
1.5	**377**	38	3.79	2690	1.80	-							
	403	36	3.55*	2640	1.95	-							
	456	31	3.14	2550	2.1	-							
	491	29	2.91	2500	2.3	-							
	542	26	2.64*	2430	2.6	-							
	603	24	2.37	2350	2.9	-	**RX**	**57**	**EDRE**	**90L4**	30	423
	700	20	2.04	2250	3.4	-	**RXF**	**57**	**EDRE**	**90L4**	32	424
	745	19	1.92*	2210	3.6	-							
	866	16	1.65	2120	4.2	-							
	969	15	1.48	2040	4.6	-							
	1095	13	1.30	1970	4.8	-							
2.2	**1.1**	17300	1279	120000	1.05	-							
	1.3	15100	1123	120000	1.20	-							
	1.4	13400	999	120000	1.35	-	**R**	**167R97**	**EDRE**	**100M4**	770	472
	1.6	11600	861	120000	1.55	-	**RF**	**167R97**	**EDRE**	**100M4**	770	472
	1.9	10200	760	120000	1.75	-	**RM**	**167R97**	**EDRE**	**100M4**	970	472
	2.2	8620	656	120000	2.1	-							
	2.7	7110	533	71200	1.85	-							
	3.1	6120	462	72100	2.1	-	**R**	**147R87**	**EDRE**	**100M4**	460	472
	3.3	5750	426	72400	2.3	-	**RF**	**147R87**	**EDRE**	**100M4**	470	472
	3.9	4970	368	73000	2.6	-	**RM**	**147R87**	**EDRE**	**100M4**	640	472
	4.4	4390	326	73300	3.0	-							
	1.6	12000	889	64400	1.10	-							
	1.8	10600	784	66800	1.20	-							
	2.0	9410	695	68600	1.40	-	**R**	**147R77**	**EDRE**	**100M4**	440	472
	2.3	8450	619	69800	1.55	-	**RF**	**147R77**	**EDRE**	**100M4**	450	472
	2.6	7600	558	70700	1.70	-	**RM**	**147R77**	**EDRE**	**100M4**	620	472
	2.9	6650	489	71600	1.95	-							
	2.5	7640	560	54100	1.05	-							
	2.9	6640	490	56000	1.20	-							
	3.3	5790	428	57300	1.40	-							
	3.7	5200	381	58100	1.55	-	**R**	**137R77**	**EDRE**	**100M4**	305	472
	4.4	4410	323	59100	1.80	-	**RF**	**137R77**	**EDRE**	**100M4**	330	472
	4.9	3970	291	59500	2.0	-	**RM**	**137R77**	**EDRE**	**100M4**	440	472
	5.6	3470	255	60000	2.3	-							
	6.4	3040	223	60300	2.6	-							
	5.0	3870	285	31600	1.10	-	**R**	**107R77**	**EDRE**	**100M4**	220	472
	5.6	3420	253	33400	1.25	-	**RF**	**107R77**	**EDRE**	**100M4**	225	472
	6.6	2900	214	35200	1.50	-	**RM**	**107R77**	**EDRE**	**100M4**	315	472
	6.8	2840	209	22000	1.05	-	**R**	**97R57**	**EDRE**	**100M4**	150	472
							RF	**97R57**	**EDRE**	**100M4**	165	472
							RM	**97R57**	**EDRE**	**100M4**	215	472
	5.7	3700	251.15	32300	1.15	-							
	6.2	3390	229.95	33600	1.25	-							
	7.0	2990	203.16	35000	1.45	-							
	8.3	2540	172.34	36100	1.70	-							
	9.0	2330	158.68	36400	1.85	-	**R**	**107**	**EDRE**	**100M4**	185	464
	10	2090	141.83	36700	2.1	-	**RF**	**107**	**EDRE**	**100M4**	190	465
	11	1880	127.68	36900	2.3	-	**RM**	**107**	**EDRE**	**100M4**	275	465
	12	1700	115.63	37100	2.5	-							
	14	1510	102.53	37200	2.8	-							
	15	1360	92.70	37300	3.2	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
2.2	**7.6**	2740	186.30	22700	1.10	-							
	8.4	2500	170.02	24000	1.20	-							
	9.4	2220	150.78	25400	1.35	-							
	11	1860	126.75	26900	1.60	-							
	12	1710	116.48	27300	1.75	-							
	14	1520	103.44	27600	1.95	-	**R**	**97**	**EDRE**	**100M4**	125	462
	15	1360	92.48	27800	2.2	-	**RF**	**97**	**EDRE**	**100M4**	140	463
	17	1220	83.15	28000	2.4	-	**RM**	**97**	**EDRE**	**100M4**	195	463
	20	1060	72.17	28200	2.8	-						
	22	960	65.21	27600	3.0	-						
	24	880	59.92	26900	3.2	-						
	27	780	53.21	26000	3.5	-						
	30	700	47.58	25200	3.8	-						
	14	1520	103.65	13400	1.00	-						
	15	1370	93.38	14400	1.15	-						
	17	1200	81.92	15400	1.30	-						
	20	1060	72.57	16100	1.45	-						
	22	930	63.68*	16600	1.55	-	**R**	**87**	**EDRE**	**100M4**	84	459
	24	880	60.35*	16800	1.65	-	**RF**	**87**	**EDRE**	**100M4**	91	460
	27	775	52.82	17100	1.80	-	**RM**	**87**	**EDRE**	**100M4**	120	460
	30	700	47.58	17200	1.90	-						
	34	615	41.74	17300	2.1	-						
	39	540	36.84*	17300	2.3	-						
	44	480	32.66*	17200	2.5	-						
	41	505	34.40*	17200	2.7	-						
	45	460	31.40	17100	2.8	-	**R**	**87**	**EDRE**	**100M4**	82	459
	51	410	27.84*	17000	3.1	-	**RF**	**87**	**EDRE**	**100M4**	89	460
	61	345	23.40	16600	3.5	-	**RM**	**87**	**EDRE**	**100M4**	120	460
	66	315	21.51	16300	3.8	-						
	31	675	45.81	10900	1.05	-						
	33	635	43.26	11000	1.10	-						
	39	540	36.83	11400	1.25	-	**R**	**77**	**EDRE**	**100M4**	57	456
	43	490	33.47	11600	1.35	-	**RF**	**77**	**EDRE**	**100M4**	63	457
	49	425	29.00	11700	1.45	-	**RM**	**77**	**EDRE**	**100M4**	88	457
	56	370	25.23	11600	1.65	-						
	61	340	23.37	11400	1.80	-						
	66	315	21.43	11100	1.95	-						
	76	275	18.80	10700	2.1	-	**R**	**77**	**EDRE**	**100M4**	56	456
	80	260	17.82*	10600	2.2	-	**RF**	**77**	**EDRE**	**100M4**	62	457
	91	225	15.60	10200	2.4	-	**RM**	**77**	**EDRE**	**100M4**	87	457
	101	205	14.05	9880	2.6	-						
	61	345	23.44	9110	1.45	-						
	72	290	19.89	8740	1.60	-						
	79	260	17.95	8510	1.75	-						
	90	230	15.79	8220	1.95	-						
	96	215	14.91	8090	2.0	-	**R**	**67**	**EDRE**	**100M4**	50	453
	112	187	12.70	7740	2.3	-	**RF**	**67**	**EDRE**	**100M4**	53	454
	123	170	11.54	7530	2.5	-	**RM**	**67**	**EDRE**	**100M4**	69	454
	143	147	10.00	7230	2.8	-						
	164	128	8.70*	6940	3.0	-						
	183	115	7.79	6730	2.5	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
2.2	**65**	320	21.93	4770	1.25	-							
	77	270	18.60*	4650	1.45	-							
	85	245	16.79	4560	1.55	-							
	96	215	14.77*	4440	1.70	-							
	102	205	13.95*	4380	1.80	-	**R**	**57**	**EDRE**	**100M4**	43	450
	120	175	11.88	4220	2.1	-	**RF**	**57**	**EDRE**	**100M4**	47	451
	132	159	10.79	4130	2.2	-	**RM**	**57**	**EDRE**	**100M4**	59	451
	152	138	9.35	3980	2.5	-							
	157	134	9.06	3970	2.4	-							
	179	118	7.97	3840	2.6	-							
	98	210	14.56	2470	1.00	-							
	114	185	12.54	2830	1.15	-							
	121	174	11.79	2950	1.20	-							
	140	150	10.15	3160	1.35	-							
	157	134	9.07	3080	1.50	-							
	178	118	8.01	2990	1.65	-							
	184	114	7.76*	2900	1.40	-	**R**	**47**	**EDRE**	**100M4**	38	447
	205	103	6.96	2830	1.50	-	**RF**	**47**	**EDRE**	**100M4**	39	448
	238	88	6.00	2730	1.70	-							
	253	83	5.64*	2690	1.80	-							
	294	72	4.85	2590	2.0	-							
	329	64	4.34	2520	2.2	-							
	372	56	3.83	2440	2.4	-							
	179	118	7.97	1510	1.10	-							
	214	98	6.67	1300	1.10	-							
	252	84	5.67	1550	1.20	-							
	282	75	5.06	1680	1.35	-	**R**	**37**	**EDRE**	**100M4**	35	444
	330	64	4.32	1830	1.50	-	**RF**	**37**	**EDRE**	**100M4**	36	445
	352	60	4.05	1880	1.55	-							
	418	50	3.41	1980	1.75	-							
	334	63	4.27	920	1.10	-							
	356	59	4.00*	980	1.15	-	**R**	**27**	**EDRE**	**100M4**	29	441
	423	50	3.37	1130	1.35	-	**RF**	**27**	**EDRE**	**100M4**	29	442
	301	70	4.73	5160	1.75	-							
	353	60	4.04*	4930	2.4	-							
	385	55	3.70	4810	2.8	-							
	438	48	3.25*	4620	3.8	-							
	463	45	3.08*	4550	4.2	-							
	529	40	2.70	4370	5.4	-	**RX**	**77**	**EDRE**	**100M4**	47	427
	587	36	2.43	4230	5.7	-	**RXF**	**77**	**EDRE**	**100M4**	50	428
	669	31	2.13	4060	6.3	-							
	758	28	1.88*	3910	6.8	-							
	855	25	1.67	3760	7.0	-							
	1000	21	1.42	3580	7.4	-							
	378	56	3.77	3270	1.55	-							
	445	47	3.20*	3120	2.1	-							
	493	43	2.89	3040	2.5	-							
	561	38	2.54	2930	3.2	-							
	594	35	2.40*	2880	3.5	-	**RX**	**67**	**EDRE**	**100M4**	37	425
	697	30	2.04	2750	4.2	-	**RXF**	**67**	**EDRE**	**100M4**	41	426
	767	27	1.86	2670	4.5	-							
	886	24	1.61	2560	4.8	-							
	1020	21	1.40*	2450	5.0	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
2.2	**454**	46	3.14	2270	1.40	-							
	540	39	2.64*	2320	1.75	-							
	601	35	2.37	2270	2.00	-							
	698	30	2.04	2180	2.3	-	**RX**	**57**	**EDRE**	**100M4**	35	423
	742	28	1.92*	2140	2.4	-	**RXF**	**57**	**EDRE**	**100M4**	37	424
	862	24	1.65	2060	2.8	-						
	965	22	1.48	1990	3.1	-						
	1090	19	1.30	1920	3.3	-						
3.0	**1.7**	15600	861	120000	1.15	-						
	1.9	13800	760	120000	1.30	-	**R**	**167R97**	**EDRE**	**100LC4**	770	472
	2.2	11600	656	120000	1.55	-	**RF**	**167R97**	**EDRE**	**100LC4**	780	472
	2.9	8950	503	120000	2.0	-	**RM**	**167R97**	**EDRE**	**100LC4**	970	472
	2.7	9590	533	68300	1.35	-						
	3.2	8270	462	70000	1.55	-						
	3.4	7740	426	70600	1.70	-	**R**	**147R87**	**EDRE**	**100LC4**	465	472
	4.0	6680	368	71600	1.95	-	**RF**	**147R87**	**EDRE**	**100LC4**	475	472
	4.5	5910	326	72300	2.2	-	**RM**	**147R87**	**EDRE**	**100LC4**	640	472
	5.2	5010	280	72900	2.6	-						
	2.1	12600	695	63300	1.05	-	**R**	**147R77**	**EDRE**	**100LC4**	445	472
	2.4	11300	619	65700	1.15	-	**RF**	**147R77**	**EDRE**	**100LC4**	455	472
	2.6	10200	558	67500	1.25	-	**RM**	**147R77**	**EDRE**	**100LC4**	620	472
	3.4	7790	428	53800	1.05	-						
	3.8	6980	381	55400	1.15	-						
	4.5	5920	323	57200	1.35	-	**R**	**137R77**	**EDRE**	**100LC4**	310	472
	5.0	5330	291	58000	1.50	-	**RF**	**137R77**	**EDRE**	**100LC4**	335	472
	5.7	4650	255	58800	1.70	-	**RM**	**137R77**	**EDRE**	**100LC4**	445	472
	6.5	4080	223	59400	1.95	-						
	6.8	3900	214	31500	1.10	-	**R**	**107R77**	**EDRE**	**100LC4**	225	472
	7.8	3400	187	33500	1.25	-	**RF**	**107R77**	**EDRE**	**100LC4**	230	472
							RM	**107R77**	**EDRE**	**100LC4**	320	472
	7.2	4000	203.16	31000	1.10	-						
	8.4	3390	172.34	33600	1.25	-						
	9.2	3120	158.68	34500	1.40	-						
	10	2790	141.83	35600	1.55	-						
	11	2510	127.68	36200	1.70	-	**R**	**107**	**EDRE**	**100LC4**	190	464
	13	2270	115.63	36500	1.90	-	**RF**	**107**	**EDRE**	**100LC4**	195	465
	14	2010	102.53	36800	2.1	-	**RM**	**107**	**EDRE**	**100LC4**	280	465
	16	1820	92.70	37000	2.4	-						
	19	1540	78.57	35500	2.8	-						
	20	1430	72.88	34800	3.0	-						
	9.6	2960	150.78	18500	1.00	-						
	11	2490	126.75	21100	1.20	-						
	12	2290	116.48	22100	1.30	-						
	14	2030	103.44	23200	1.45	-						
	16	1820	92.48	24000	1.65	-						
	18	1630	83.15	24600	1.85	-						
	20	1420	72.17	25100	2.1	-	**R**	**97**	**EDRE**	**100LC4**	130	462
	22	1280	65.21	25400	2.2	-	**RF**	**97**	**EDRE**	**100LC4**	145	463
	24	1170	59.92	25500	2.4	-	**RM**	**97**	**EDRE**	**100LC4**	200	463
	27	1040	53.21	25300	2.6	-						
	31	930	47.58	24500	2.9	-						
	34	840	42.78	23800	3.1	-						
	39	730	37.13	22800	3.5	-						
	44	650	33.25	22100	3.8	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
3.0	**20**	1420	72.57	10700	1.10	-							
	23	1250	63.68*	11900	1.15	-							
	24	1180	60.35*	12300	1.20	-							
	28	1030	52.82	13100	1.35	-	**R**	**87**	**EDRE**	**100LC4**	89	459
	31	930	47.58	13700	1.45	-	**RF**	**87**	**EDRE**	**100LC4**	96	460
	35	820	41.74	14200	1.60	-	**RM**	**87**	**EDRE**	**100LC4**	125	460
	40	725	36.84*	14500	1.70	-						
	45	640	32.66*	14700	1.90	-						
	52	545	27.88	14800	2.1	-						
	42	675	34.40*	14600	2.00	-						
	46	615	31.40	14700	2.1	-						
	52	545	27.84*	14800	2.3	-						
	62	460	23.40	14800	2.6	-	**R**	**87**	**EDRE**	**100LC4**	87	459
	68	420	21.51	14700	2.8	-	**RF**	**87**	**EDRE**	**100LC4**	94	460
	76	375	19.10	14600	3.1	-	**RM**	**87**	**EDRE**	**100LC4**	125	460
	85	335	17.08*	14500	3.4	-						
	95	300	15.35	14300	3.7	-						
	43	655	33.47	8850	1.00	-	**R**	**77**	**EDRE**	**100LC4**	62	456
	50	570	29.00	9340	1.10	-	**RF**	**77**	**EDRE**	**100LC4**	68	457
	58	495	25.23	9670	1.20	-	**RM**	**77**	**EDRE**	**100LC4**	93	457
	62	460	23.37	9800	1.35	-						
	68	420	21.43	9910	1.45	-						
	77	370	18.80	10000	1.60	-						
	82	350	17.82*	10000	1.65	-						
	93	305	15.60	9880	1.80	-						
	104	275	14.05	9600	2.00	-	**R**	**77**	**EDRE**	**100LC4**	61	456
	118	240	12.33	9250	2.2	-	**RF**	**77**	**EDRE**	**100LC4**	67	457
	134	210	10.88	8930	2.5	-	**RM**	**77**	**EDRE**	**100LC4**	92	457
	151	190	9.64	8630	2.8	-						
	169	169	8.59	8400	2.9	-						
	188	152	7.74	8150	3.2	-						
	214	134	6.79	7830	3.6	-						
	62	460	23.44	7140	1.10	-						
	73	390	19.89	7660	1.20	-						
	81	350	17.95	7890	1.30	-						
	92	310	15.79	7900	1.45	-	**R**	**67**	**EDRE**	**100LC4**	55	453
	98	290	14.91	7790	1.50	-	**RF**	**67**	**EDRE**	**100LC4**	58	454
	115	250	12.70	7470	1.75	-	**RM**	**67**	**EDRE**	**100LC4**	74	454
	126	225	11.54	7290	1.90	-						
	146	197	10.00	7010	2.1	-						
	78	365	18.60*	3300	1.10	-						
	87	330	16.79	3630	1.15	-						
	98	290	14.77*	3970	1.25	-						
	104	270	13.95*	4100	1.35	-						
	122	230	11.88	3980	1.55	-						
	135	210	10.79	3900	1.65	-						
	156	184	9.35	3790	1.90	-	**R**	**57**	**EDRE**	**100LC4**	48	450
	161	178	9.06	3780	1.75	-	**RF**	**57**	**EDRE**	**100LC4**	52	451
	183	157	7.97	3670	1.90	-	**RM**	**57**	**EDRE**	**100LC4**	64	451
	193	148	7.53	3620	2.00	-						
	227	126	6.41	3480	2.2	-						
	250	115	5.82	3400	2.3	-						
	288	99	5.05	3280	2.6	-						
	331	86	4.39	3160	2.8	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
3.0	**143**	200	10.15	1910	1.05	-								
	160	178	9.07	2180	1.10	-								
	182	158	8.01	2430	1.25	-								
	188	153	7.76*	2040	1.05	-								
	209	137	6.96	2250	1.15	-	**R**	**47**	**EDRE**	**100LC4**	43	447
	243	118	6.00	2480	1.30	-	**RF**	**47**	**EDRE**	**100LC4**	44	448
	258	111	5.64*	2560	1.35	-						
	300	96	4.85	2470	1.50	-						
	336	85	4.34	2410	1.65	-						
	380	75	3.83	2340	1.80	-						
	337	85	4.32	1100	1.10	-						
	360	80	4.05	1190	1.15	-	**R**	**37**	**EDRE**	**100LC4**	40	444
	427	67	3.41	1390	1.30	-	**RF**	**37**	**EDRE**	**100LC4**	41	445
	432	66	3.37	555	1.00	-	**R**	**27**	**EDRE**	**100LC4**	34	441
							RF	**27**	**EDRE**	**100LC4**	34	442
	225	127	6.45	7050	1.50	-						
	262	110	5.56*	6760	2.0	-						
	287	100	5.07	6580	2.5	-	**RX**	**87**	**EDRE**	**100LC4**	69	429
	323	89	4.50*	6350	3.3	-	**RXF**	**87**	**EDRE**	**100LC4**	74	430
	385	74	3.78	6040	4.1	-						
	308	93	4.73	5000	1.30	-						
	360	80	4.04*	4780	1.80	-						
	393	73	3.70	4670	2.1	-	**RX**	**77**	**EDRE**	**100LC4**	52	427
	448	64	3.25*	4500	2.8	-	**RXF**	**77**	**EDRE**	**100LC4**	55	428
	472	61	3.08*	4430	3.2	-						
	386	74	3.77	3120	1.15	-						
	455	63	3.20*	3000	1.60	-						
	504	57	2.89	2920	1.85	-						
	572	50	2.54	2820	2.4	-						
	606	47	2.40*	2780	2.6	-	**RX**	**67**	**EDRE**	**100LC4**	42	425
	712	40	2.04	2660	3.2	-	**RXF**	**67**	**EDRE**	**100LC4**	46	426
	783	37	1.86	2590	3.4	-						
	904	32	1.61	2480	3.6	-						
	1040	28	1.40*	2380	3.8	-						
	464	62	3.14	1380	1.05	-						
	551	52	2.64*	1540	1.35	-						
	614	47	2.37	1610	1.50	-						
	713	40	2.04	1690	1.70	-	**RX**	**57**	**EDRE**	**100LC4**	40	423
	758	38	1.92*	1710	1.85	-	**RXF**	**57**	**EDRE**	**100LC4**	42	424
	881	32	1.65	1740	2.1	-						
	986	29	1.48	1740	2.3	-						
	1115	26	1.30	1770	2.4	-						
4.0	**2.2**	15600	656	120000	1.15	-						
	2.9	12000	503	120000	1.50	-	**R**	**167R97**	**EDRE**	**132S4**	790	472
	3.9	8990	376	120000	2.0	-	**RF**	**167R97**	**EDRE**	**132S4**	790	472
	4.4	8000	335	120000	2.2	-	**RM**	**167R97**	**EDRE**	**132S4**	990	472
	2.7	12800	533	63000	1.00	-						
	3.2	11000	462	66100	1.15	-						
	3.4	10300	426	67300	1.25	-						
	4.0	8930	368	69200	1.45	-						
	4.5	7890	326	70400	1.65	-	**R**	**147R87**	**EDRE**	**132S4**	480	472
	5.2	6720	280	71600	1.95	-	**RF**	**147R87**	**EDRE**	**132S4**	485	472
	5.9	5930	247	72300	2.2	-	**RM**	**147R87**	**EDRE**	**132S4**	650	472
	6.8	5120	214	72900	2.5	-						
	7.7	4530	189	73200	2.9	-						
	9.2	3810	159	73600	3.4	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
4.0	**3.0**	11900	489	64700	1.10	-		**R**	**147R77**	**EDRE**	**132S4**	460	472
	3.5	10100	415	67600	1.30	-		**RF**	**147R77**	**EDRE**	**132S4**	465	472
								RM	**147R77**	**EDRE**	**132S4**	630	472
	4.5	7890	323	53600	1.00	-							
	5.0	7100	291	55200	1.15	-		**R**	**137R77**	**EDRE**	**132S4**	325	472
	5.7	6210	255	56700	1.30	-		**RF**	**137R77**	**EDRE**	**132S4**	350	472
	6.5	5440	223	57800	1.45	-		**RM**	**137R77**	**EDRE**	**132S4**	460	472
	4.9	7320	297	54800	1.10	-		**R**	**137R77**	**EDRE**	**132S4**	315	472
								RF	**137R77**	**EDRE**	**132S4**	340	472
								RM	**137R77**	**EDRE**	**132S4**	450	472
	8.5	4250	172	29700	1.00	-		**R**	**107R77**	**EDRE**	**132S4**	235	472
								RF	**107R77**	**EDRE**	**132S4**	240	472
								RM	**107R77**	**EDRE**	**132S4**	325	472
	9.2	4150	158.68	30200	1.05	-							
	10	3710	141.83	32300	1.15	-							
	11	3340	127.68	33800	1.30	-							
	13	3020	115.63	34900	1.40	-							
	14	2680	102.53	35900	1.60	-		**R**	**107**	**EDRE**	**132S4**	200	464
	16	2420	92.70	36200	1.75	-		**RF**	**107**	**EDRE**	**132S4**	205	465
	19	2050	78.57	34600	2.1	-		**RM**	**107**	**EDRE**	**132S4**	295	465
	20	1900	72.88	34000	2.3	-							
	22	1710	65.60*	33000	2.5	-							
	25	1550	59.41	32100	2.8	-							
	28	1370	52.68	31000	3.1	-							
	14	2700	103.44	15200	1.10	-							
	16	2410	92.48	16900	1.25	-							
	18	2170	83.15	18200	1.40	-							
	20	1880	72.17	19600	1.60	-							
	22	1700	65.21	20300	1.70	-		**R**	**97**	**EDRE**	**132S4**	145	462
	24	1560	59.92	20800	1.80	-		**RF**	**97**	**EDRE**	**132S4**	160	463
	27	1390	53.21	21400	1.95	-		**RM**	**97**	**EDRE**	**132S4**	210	463
	31	1240	47.58	21700	2.2	-							
	34	1110	42.78	21900	2.4	-							
	39	970	37.13	22100	2.6	-							
	44	860	33.25	21600	2.9	-							
	46	830	32.05	21400	2.8	-							
	54	710	27.19	20500	3.1	-		**R**	**97**	**EDRE**	**132S4**	140	462
	58	650	25.03	20000	3.3	-		**RF**	**97**	**EDRE**	**132S4**	155	463
	65	585	22.37	19300	3.6	-		**RM**	**97**	**EDRE**	**132S4**	210	463
	72	525	20.14	18700	3.9	-							
	28	1380	52.82	8160	1.00	-							
	31	1240	47.58	9180	1.10	-							
	35	1090	41.74	10200	1.20	-		**R**	**87**	**EDRE**	**132S4**	100	459
	40	960	36.84*	11000	1.30	-		**RF**	**87**	**EDRE**	**132S4**	110	460
	45	850	32.66*	11600	1.40	-		**RM**	**87**	**EDRE**	**132S4**	140	460
	52	725	27.88	12200	1.60	-							
	42	900	34.40*	11400	1.50	-							
	46	820	31.40	11800	1.60	-							
	52	725	27.84*	12200	1.75	-							
	62	610	23.40	12600	2.00	-							
	68	560	21.51	12700	2.1	-		**R**	**87**	**EDRE**	**132S4**	100	459
	76	495	19.10	12800	2.3	-		**RF**	**87**	**EDRE**	**132S4**	110	460
	85	445	17.08*	12800	2.6	-		**RM**	**87**	**EDRE**	**132S4**	140	460
	95	400	15.35	12800	2.8	-							
	110	345	13.33	12700	3.2	-							
	122	310	11.93	12600	3.5	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
4.0	**62**	610	23.37	7420	1.00	-							
	68	560	21.43	7730	1.10	-							
	78	490	18.80	8100	1.20	-							
	82	465	17.82*	8220	1.25	-							
	94	405	15.60	8460	1.35	-							
	104	365	14.05	8580	1.50	-							
	118	320	12.33	8670	1.70	-	**R**	**77**	**EDRE**	**132S4**	74	456
	134	280	10.88	8710	1.90	-	**RF**	**77**	**EDRE**	**132S4**	80	457
	151	250	9.64	8430	2.1	-	**RM**	**77**	**EDRE**	**132S4**	105	457
	170	220	8.59	8080	2.2	-							
	189	200	7.74	8010	2.4	-							
	215	178	6.79	7710	2.7	-							
	244	157	5.99*	7430	3.0	-							
	275	139	5.31*	7160	3.2	-							
	92	410	15.79	6080	1.10	-							
	98	390	14.91	6260	1.15	-							
	115	330	12.70	6680	1.30	-							
	127	300	11.54	6860	1.40	-							
	146	260	10.00	6790	1.55	-							
	168	225	8.70*	6560	1.70	-	**R**	**67**	**EDRE**	**132S4**	110	453
	187	200	7.79	6390	1.40	-	**RF**	**67**	**EDRE**	**132S4**	110	454
	198	193	7.36*	6300	1.50	-	**RM**	**67**	**EDRE**	**132S4**	125	454
	233	164	6.27	6030	1.60	-							
	256	149	5.70	5870	1.75	-							
	296	129	4.93	5640	1.90	-							
	340	112	4.29	5420	2.1	-							
	105	365	13.95*	2370	1.00	-							
	123	310	11.88	2920	1.15	-							
	135	280	10.79	3180	1.25	-							
	156	240	9.35	3500	1.45	-							
	161	235	9.06	2820	1.35	-	**R**	**57**	**EDRE**	**132S4**	100	450
	183	205	7.97	3120	1.45	-	**RF**	**57**	**EDRE**	**132S4**	105	451
	194	197	7.53	3230	1.50	-	**RM**	**57**	**EDRE**	**132S4**	115	451
	228	168	6.41	3330	1.65	-							
	251	152	5.82	3260	1.75	-							
	289	132	5.05	3160	1.95	-							
	333	115	4.39	3050	2.1	-							
	259	148	5.64*	1550	1.00	-							
	301	127	4.85	1840	1.15	-	**R**	**47**	**EDRE**	**132S4**	97	447
	337	113	4.34	2020	1.25	-	**RF**	**47**	**EDRE**	**132S4**	97	448
	381	100	3.83	2170	1.35	-							
	263	146	5.56*	6580	1.55	-							
	288	133	5.07	6420	1.90	-	**RX**	**87**	**EDRE**	**132S4**	82	429
	324	118	4.50*	6210	2.5	-	**RXF**	**87**	**EDRE**	**132S4**	87	430
	386	99	3.78	5910	3.1	-							
	361	106	4.04*	4510	1.35	-							
	394	97	3.70	4530	1.60	-							
	449	85	3.25*	4380	2.1	-							
	474	81	3.08*	4310	2.4	-							
	542	70	2.70	4160	3.0	-	**RX**	**77**	**EDRE**	**132S4**	66	427
	601	64	2.43	4040	3.2	-	**RXF**	**77**	**EDRE**	**132S4**	68	428
	685	56	2.13	3890	3.6	-							
	777	49	1.88*	3750	3.8	-							
	876	44	1.67	3620	4.0	-							
	1025	37	1.42	3450	4.2	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
4.0	**456**	84	3.20*	2630	1.20	-							
	505	76	2.89	2710	1.40	-							
	574	66	2.54	2710	1.75	-							
	608	63	2.40*	2670	1.95	-	**RX**	**67**	**EDRE**	**132S4**		96	425
	714	54	2.04	2560	2.4	-	**RXF**	**67**	**EDRE**	**132S4**		100	426
	786	49	1.86	2500	2.5	-							
	908	42	1.61	2400	2.7	-							
	1045	37	1.40*	2310	2.8	-							
	553	69	2.64*	555	1.00	-							
	616	62	2.37	705	1.10	-							
	715	53	2.04	870	1.30	-							
	760	50	1.92*	930	1.35	-	**RX**	**57**	**EDRE**	**132S4**		93	423
	884	43	1.65	1040	1.60	-	**RXF**	**57**	**EDRE**	**132S4**		95	424
	989	39	1.48	1080	1.75	-							
	1120	34	1.30	1170	1.85	-							
5.5	**2.9**	16700	503	120000	1.10	-							
	3.4	14200	432	120000	1.25	-							
	3.9	12500	376	120000	1.45	-	**R**	**167R97**	**EDRE**	**132M4**		800	472
	4.3	11100	335	120000	1.60	-	**RF**	**167R97**	**EDRE**	**132M4**		800	472
	4.8	9970	303	120000	1.80	-	**RM**	**167R97**	**EDRE**	**132M4**		1000	472
	5.2	9190	279	120000	1.95	-							
	4.0	12300	368	63900	1.05	-							
	4.5	10900	326	66400	1.20	-							
	5.2	9340	280	68700	1.40	-	**R**	**147R87**	**EDRE**	**132M4**		490	472
	5.9	8240	247	70000	1.60	-	**RF**	**147R87**	**EDRE**	**132M4**		500	472
	6.8	7120	214	71200	1.80	-	**RM**	**147R87**	**EDRE**	**132M4**		670	472
	7.7	6300	189	72000	2.1	-							
	6.5	8030	222.60*	53300	1.00	-							
	7.7	6800	188.45	55700	1.20	-							
	8.3	6290	174.40*	56600	1.25	-							
	9.3	5640	156.31	57600	1.40	-							
	10	5090	141.12*	58300	1.55	-							
	11	4620	128.18	58800	1.75	-							
	13	4100	113.72	59400	1.95	-	**R**	**137**	**EDRE**	**132M4**		300	466
	14	3720	103.20*	59800	2.2	-	**RF**	**137**	**EDRE**	**132M4**		320	467
	16	3200	88.70*	60200	2.5	-	**RM**	**137**	**EDRE**	**132M4**		435	467
	18	2920	80.91*	60400	2.7	-							
	20	2650	73.49	60600	3.0	-							
	22	2350	65.20	60800	3.4	-							
	25	2130	59.17*	60900	3.8	-							
	29	1830	50.86*	61000	4.2	-							
	13	4170	115.63	30100	1.05	-							
	14	3700	102.53	32300	1.15	-							
	16	3340	92.70	33800	1.30	-							
	19	2830	78.57	33400	1.50	-							
	20	2630	72.88	32800	1.65	-	**R**	**107**	**EDRE**	**132M4**		210	464
	22	2360	65.60*	31900	1.80	-	**RF**	**107**	**EDRE**	**132M4**		220	465
	24	2140	59.41	31200	2.0	-	**RM**	**107**	**EDRE**	**132M4**		305	465
	28	1900	52.68	30200	2.3	-							
	31	1710	47.63	29400	2.5	-							
	36	1450	40.37*	28100	3.0	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
5.5	**18**	3000	83.15	8470	1.00	-								
	20	2600	72.17	11100	1.15	-								
	22	2350	65.21	24600	1.20	-								
	24	2160	59.92	24200	1.30	-								
	27	1920	53.21	23500	1.40	-	**R**	**97**		**EDRE**	**132M4**		155	462
	31	1710	47.58	22900	1.55	-	**RF**	**97**		**EDRE**	**132M4**		170	463
	34	1540	42.78	22400	1.70	-	**RM**	**97**		**EDRE**	**132M4**		225	463
	39	1340	37.13	21600	1.90	-								
	44	1200	33.25	18200	2.1	-								
	53	990	27.58	18700	2.4	-								
	45	1150	32.05	18300	2.0	-								
	54	980	27.19	18700	2.3	-								
	58	900	25.03	18800	2.4	-	**R**	**97**		**EDRE**	**132M4**		150	462
	65	800	22.37	18800	2.6	-	**RF**	**97**		**EDRE**	**132M4**		170	463
	72	725	20.14	18400	2.8	-	**RM**	**97**		**EDRE**	**132M4**		220	463
	80	655	18.24	17900	3.1	-								
	90	580	16.17	17300	3.4	-								
	45	1170	32.66*	16700	1.05	-	**R**	**87**		**EDRE**	**132M4**		115	459
	52	1000	27.88	16100	1.15	-	**RF**	**87**		**EDRE**	**132M4**		120	460
							RM	**87**		**EDRE**	**132M4**		150	460
	52	1000	27.84*	16100	1.25	-								
	62	840	23.40	15400	1.45	-								
	68	775	21.51	15100	1.55	-								
	76	685	19.10	14600	1.70	-								
	85	615	17.08*	14200	1.85	-								
	95	550	15.35	10600	2.0	-	**R**	**87**		**EDRE**	**132M4**		115	459
	109	480	13.33	10800	2.3	-	**RF**	**87**		**EDRE**	**132M4**		120	460
	122	430	11.93	10900	2.5	-	**RM**	**87**		**EDRE**	**132M4**		150	460
	147	355	9.90*	10900	3.0	-								
	159	330	9.14*	10300	3.0	-								
	177	295	8.22	10300	3.2	-								
	204	255	7.13	10200	3.5	-								
	104	505	14.05	6420	1.10	-								
	118	440	12.33	6780	1.20	-								
	134	390	10.88	7030	1.40	-								
	151	345	9.64	7210	1.55	-	**R**	**77**		**EDRE**	**132M4**		86	456
	169	310	8.59	6550	1.60	-	**RF**	**77**		**EDRE**	**132M4**		92	457
	188	275	7.74	6690	1.75	-	**RM**	**77**		**EDRE**	**132M4**		115	457
	214	245	6.79	6810	2.00	-								
	243	215	5.99*	6870	2.2	-								
	274	192	5.31*	6890	2.4	-								
	126	415	11.54	4610	1.05	-								
	146	360	10.00	5110	1.15	-								
	167	310	8.70*	5480	1.25	-								
	187	280	7.79	4940	1.05	-	**R**	**67**		**EDRE**	**132M4**		120	453
	198	265	7.36*	5080	1.05	-	**RF**	**67**		**EDRE**	**132M4**		125	454
	232	225	6.27	5390	1.15	-	**RM**	**67**		**EDRE**	**132M4**		140	454
	255	205	5.70	5520	1.25	-								
	295	178	4.93	5490	1.40	-								
	339	155	4.29	5290	1.50	-								
	156	335	9.35	1740	1.05	-								
	183	285	7.97	1370	1.05	-								
	193	270	7.53	1580	1.10	-	**R**	**57**		**EDRE**	**132M4**		115	450
	227	230	6.41	2080	1.20	-	**RF**	**57**		**EDRE**	**132M4**		115	451
	250	210	5.82	2320	1.25	-	**RM**	**57**		**EDRE**	**132M4**		130	451
	288	182	5.05	2620	1.40	-								
	331	158	4.39	2840	1.50	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
5.5	**220**	235	6.63*	10400	1.90	-							
	259	200	5.61	9930	2.2	-	**RX**	**107**	**EDRE**	**132M4**	150	433
	280	187	5.19	9710	3.7	-	**RXF**	**107**	**EDRE**	**132M4**	165	434
	313	168	4.65	9410	4.1	-						
	251	205	5.79	8340	2.0	-						
	296	177	4.91	7970	2.2	-						
	322	163	4.52	7790	3.6	-						
	360	146	4.04	7540	4.1	-						
	400	131	3.64*	7320	4.5	-						
	441	119	3.30	7110	5.0	-	**RX**	**97**	**EDRE**	**132M4**	120	431
	498	106	2.92	6860	5.6	-	**RXF**	**97**	**EDRE**	**132M4**	125	432
	551	95	2.64	6660	6.2	-						
	650	81	2.24*	6330	7.4	-						
	744	71	1.96	6080	8.1	-						
	889	59	1.64	5750	8.5	-						
	1025	51	1.42	5500	8.9	-						
	323	162	4.50*	6010	1.80	-						
	385	136	3.78	5740	2.2	-						
	419	126	3.48	5610	3.2	-						
	471	111	3.09	5430	3.6	-	**RX**	**87**	**EDRE**	**132M4**	94	429
	527	100	2.76*	5260	4.1	-	**RXF**	**87**	**EDRE**	**132M4**	99	430
	586	90	2.48	5110	4.5	-						
	676	78	2.15	4900	4.8	-						
	448	117	3.25*	3410	1.55	-						
	472	111	3.08*	3460	1.75	-						
	540	97	2.70	3530	2.2	-						
	599	88	2.43	3520	2.3	-	**RX**	**77**	**EDRE**	**132M4**	78	427
	683	77	2.13	3540	2.6	-	**RXF**	**77**	**EDRE**	**132M4**	80	428
	774	68	1.88*	3530	2.8	-						
	873	60	1.67	3500	2.9	-						
	1020	51	1.42	3370	3.0	-						
	572	92	2.54	1600	1.30	-						
	606	87	2.40*	1670	1.40	-						
	712	74	2.04	1790	1.75	-	**RX**	**67**	**EDRE**	**132M4**	110	425
	783	67	1.86	1860	1.85	-	**RXF**	**67**	**EDRE**	**132M4**	110	426
	904	58	1.61	1940	1.95	-						
	1040	50	1.40*	1980	2.1	-						
	986	53	1.48	87	1.30	-	**RX**	**57**	**EDRE**	**132M4**	105	423
	1115	47	1.30	265	1.35	-	**RXF**	**57**	**EDRE**	**132M4**	105	424
7.5	**3.9**	17000	376	120000	1.05	-							
	4.4	15100	335	120000	1.20	-	**R**	**167R97**	**EDRE**	**160S4**	810	472
	4.8	13600	303	120000	1.30	-	**RF**	**167R97**	**EDRE**	**160S4**	820	472
	5.2	12500	279	120000	1.45	-	**RM**	**167R97**	**EDRE**	**160S4**	1020	472
	5.2	12700	280	63200	1.00	-						
	5.9	11200	247	65900	1.15	-	**R**	**147R87**	**EDRE**	**160S4**	510	472
	6.9	9690	214	68200	1.35	-	**RF**	**147R87**	**EDRE**	**160S4**	510	472
	7.8	8570	189	69600	1.50	-	**RM**	**147R87**	**EDRE**	**160S4**	680	472
	9.2	7200	159	71100	1.80	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
7.5	**9.4**	7640	156.31	54100	1.05	-							
	10	6890	141.12*	55600	1.15	-							
	11	6260	128.18	56600	1.30	-							
	13	5550	113.72	57700	1.45	-							
	14	5040	103.20*	58300	1.60	-	**R**	**137**	**EDRE**	**160S4**	310	466
	17	4330	88.70*	59200	1.85	-	**RF**	**137**	**EDRE**	**160S4**	335	467
	18	3950	80.91*	59500	2.0	-	**RM**	**137**	**EDRE**	**160S4**	445	467
	20	3590	73.49	59900	2.2	-						
	22	3180	65.20	60200	2.5	-						
	25	2890	59.17*	60400	2.8	-						
	29	2480	50.86*	60700	3.1	-						
	19	3840	78.57	31600	1.10	-						
	20	3560	72.88	31200	1.20	-						
	22	3200	65.60*	30500	1.35	-						
	25	2900	59.41	29800	1.50	-	**R**	**107**	**EDRE**	**160S4**	230	464
	28	2570	52.68	29000	1.65	-	**RF**	**107**	**EDRE**	**160S4**	235	465
	31	2320	47.63	28300	1.85	-	**RM**	**107**	**EDRE**	**160S4**	320	465
	36	1970	40.37*	27200	2.2	-						
	42	1720	35.26	26200	2.4	-						
	50	1440	29.49	25000	2.7	-						
	48	1500	30.77	25300	2.9	-						
	53	1340	27.58	24600	3.2	-	**R**	**107**	**EDRE**	**160S4**	220	464
	59	1210	24.90*	23900	3.5	-	**RF**	**107**	**EDRE**	**160S4**	230	465
	65	1100	22.62	23300	3.9	-	**RM**	**107**	**EDRE**	**160S4**	315	465
	28	2600	53.21	22100	1.05	-						
	31	2320	47.58	21700	1.15	-						
	34	2090	42.78	21200	1.25	-	**R**	**97**	**EDRE**	**160S4**	170	462
	39	1810	37.13	20600	1.40	-	**RF**	**97**	**EDRE**	**160S4**	190	463
	44	1620	33.25	13100	1.55	-	**RM**	**97**	**EDRE**	**160S4**	240	463
	53	1340	27.58	14400	1.75	-						
	46	1560	32.05	13400	1.50	-						
	54	1320	27.19	14500	1.70	-						
	59	1220	25.03	14900	1.80	-	**R**	**97**	**EDRE**	**160S4**	170	462
	65	1090	22.37	15400	1.95	-	**RF**	**97**	**EDRE**	**160S4**	185	463
	73	980	20.14	15700	2.1	-	**RM**	**97**	**EDRE**	**160S4**	235	463
	80	890	18.24	15900	2.3	-						
	63	1140	23.40	14600	1.05	-						
	68	1050	21.51	14400	1.15	-						
	77	930	19.10	14000	1.25	-						
	86	830	17.08*	13700	1.35	-						
	95	750	15.35	7770	1.50	-						
	110	650	13.33	8340	1.70	-	**R**	**87**	**EDRE**	**160S4**	130	459
	123	580	11.93	8680	1.85	-	**RF**	**87**	**EDRE**	**160S4**	135	460
	148	480	9.90*	9080	2.2	-	**RM**	**87**	**EDRE**	**160S4**	165	460
	160	445	9.14*	8290	2.2	-						
	178	400	8.22	8490	2.4	-						
	205	345	7.13	8670	2.6	-						
	229	310	6.39	8750	2.8	-						
	276	255	5.30*	8780	3.2	-						
	135	530	10.88	4830	1.00	-						
	152	470	9.64	5250	1.15	-						
	170	420	8.59	4530	1.20	-	**R**	**77**	**EDRE**	**160S4**	100	456
	189	375	7.74	4870	1.30	-	**RF**	**77**	**EDRE**	**160S4**	110	457
	216	330	6.79	5210	1.45	-	**RM**	**77**	**EDRE**	**160S4**	135	457
	244	290	5.99*	5460	1.60	-						
	276	255	5.31*	5640	1.75	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
7.5	**221**	320	6.63*	10100	1.40	-								
	261	270	5.61	9620	1.65	-								
	282	250	5.19	9430	2.7	-		**RX**	**107**	**EDRE**	**160S4**		165	433
	315	225	4.65	9150	3.1	-		**RXF**	**107**	**EDRE**	**160S4**		185	434
	349	205	4.20*	8900	3.7	-								
	253	280	5.79	8030	1.50	-								
	298	240	4.91	7700	1.65	-								
	324	220	4.52	7540	2.7	-								
	362	198	4.04	7320	3.0	-		**RX**	**97**	**EDRE**	**160S4**		135	431
	402	178	3.64*	7110	3.3	-		**RXF**	**97**	**EDRE**	**160S4**		140	432
	444	161	3.30	6920	3.7	-								
	501	143	2.92	6690	4.2	-								
	326	220	4.50*	5730	1.30	-								
	387	185	3.78	5500	1.65	-								
	421	170	3.48	5390	2.4	-								
	475	151	3.09	5230	2.7	-								
	531	135	2.76*	5080	3.0	-		**RX**	**87**	**EDRE**	**160S4**		110	429
	590	121	2.48	4940	3.3	-		**RXF**	**87**	**EDRE**	**160S4**		115	430
	680	105	2.15	4750	3.6	-								
	760	94	1.93	4610	3.8	-								
	916	78	1.60*	4370	4.0	-								
	1055	68	1.39	4200	4.3	-								
	451	159	3.25*	1910	1.15	-								
	476	151	3.08*	2010	1.30	-								
	543	132	2.70	2220	1.65	-								
	603	119	2.43	2310	1.75	-		**RX**	**77**	**EDRE**	**160S4**		94	427
	688	104	2.13	2430	1.90	-		**RXF**	**77**	**EDRE**	**160S4**		96	428
	779	92	1.88*	2520	2.0	-								
	879	82	1.67	2570	2.1	-								
	1030	70	1.42	2600	2.2	-								
9.2	**4.9**	16700	303	120000	1.10	-		**R**	**167R97**	**EDRE**	**160M4**		820	472
	5.3	15400	279	120000	1.15	-		**RF**	**167R97**	**EDRE**	**160M4**		830	472
								RM	**167R97**	**EDRE**	**160M4**		1020	472
	6.9	11800	214	64800	1.10	-		**R**	**147R87**	**EDRE**	**160M4**		520	472
	7.8	10500	189	67000	1.25	-		**RF**	**147R87**	**EDRE**	**160M4**		520	472
	9.3	8830	159	69300	1.45	-		**RM**	**147R87**	**EDRE**	**160M4**		690	472
	9.0	9760	163.31	68100	1.35	-								
	10	8770	146.91	69400	1.50	-								
	12	7160	119.86	71200	1.80	-								
	13	6530	109.31	71800	2.00	-		**R**	**147**	**EDRE**	**160M4**		450	468
	16	5650	94.60*	72500	2.3	-		**RF**	**147**	**EDRE**	**160M4**		460	469
	18	4980	83.47	73000	2.6	-		**RM**	**147**	**EDRE**	**160M4**		630	469
	20	4300	72.09	73400	3.0	-								
	22	4000	66.99	73500	3.2	-								
	11	7660	128.18	54100	1.05	-								
	13	6790	113.72	55700	1.20	-								
	14	6160	103.20*	56800	1.30	-								
	17	5300	88.70*	58000	1.50	-								
	18	4830	80.91*	58600	1.65	-		**R**	**137**	**EDRE**	**160M4**		320	466
	20	4390	73.49	59100	1.80	-		**RF**	**137**	**EDRE**	**160M4**		345	467
	23	3890	65.20	59600	2.0	-		**RM**	**137**	**EDRE**	**160M4**		455	467
	25	3530	59.17*	59900	2.3	-								
	29	3030	50.86*	60300	2.6	-								
	33	2650	44.39	60600	2.9	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
9.2	**22**	3920	65.60*	29200	1.10	-								
	25	3550	59.41	28700	1.20	-								
	28	3140	52.68	28000	1.35	-	**R**	**107**	**EDRE**	**160M4**	235	464
	31	2840	47.63	27400	1.50	-	**RF**	**107**	**EDRE**	**160M4**	245	465
	36	2410	40.37*	26400	1.80	-	**RM**	**107**	**EDRE**	**160M4**	330	465
	42	2100	35.26	25600	1.95	-						
	50	1760	29.49	24500	2.2	-						
	48	1830	30.77	24700	2.3	-						
	53	1640	27.58	24000	2.6	-	**R**	**107**	**EDRE**	**160M4**	230	464
	59	1480	24.90*	23400	2.9	-	**RF**	**107**	**EDRE**	**160M4**	235	465
	65	1350	22.62	22800	3.2	-	**RM**	**107**	**EDRE**	**160M4**	325	465
	73	1190	20.07	22100	3.6	-						
	34	2550	42.78	20200	1.05	-						
	40	2210	37.13	19800	1.15	-	**R**	**97**	**EDRE**	**160M4**	180	462
	44	1980	33.25	19300	1.25	-	**RF**	**97**	**EDRE**	**160M4**	195	463
	53	1640	27.58	18600	1.45	-	**RM**	**97**	**EDRE**	**160M4**	250	463
	59	1490	25.03	18200	1.45	-						
	66	1330	22.37	17800	1.60	-						
	73	1200	20.14	17300	1.70	-	**R**	**97**	**EDRE**	**160M4**	175	462
	81	1090	18.24	16900	1.85	-	**RF**	**97**	**EDRE**	**160M4**	195	463
	91	960	16.17	16400	2.1	-	**RM**	**97**	**EDRE**	**160M4**	245	463
	101	870	14.62	16000	2.2	-						
	119	740	12.39	14500	2.6	-						
	77	1140	19.10	13500	1.00	-						
	86	1020	17.08*	13200	1.10	-						
	96	910	15.35	12900	1.25	-						
	110	795	13.33	12500	1.40	-						
	123	710	11.93	12200	1.55	-	**R**	**87**	**EDRE**	**160M4**	135	459
	148	590	9.90*	11600	1.80	-	**RF**	**87**	**EDRE**	**160M4**	145	460
	161	545	9.14*	11600	1.80	-	**RM**	**87**	**EDRE**	**160M4**	175	460
	179	490	8.22	11300	1.95	-						
	206	425	7.13	10900	2.1	-						
	230	380	6.39	10500	2.3	-						
	190	460	7.74	3330	1.05	-						
	216	405	6.79	3860	1.20	-	**R**	**77**	**EDRE**	**160M4**	110	456
	245	355	5.99*	4260	1.30	-	**RF**	**77**	**EDRE**	**160M4**	115	457
	277	315	5.31*	4580	1.40	-	**RM**	**77**	**EDRE**	**160M4**	140	457
	283	310	5.19	9200	2.2	-						
	316	275	4.65	8940	2.5	-						
	350	250	4.20*	8710	3.0	-	**RX**	**107**	**EDRE**	**160M4**	175	433
	385	225	3.81	8490	3.5	-	**RXF**	**107**	**EDRE**	**160M4**	190	434
	434	200	3.38	8220	4.1	-						
	325	270	4.52	7330	2.2	-						
	364	240	4.04	7130	2.5	-						
	404	215	3.64*	6940	2.7	-						
	446	197	3.30	6760	3.0	-						
	503	175	2.92	6550	3.4	-	**RX**	**97**	**EDRE**	**160M4**	145	431
	556	158	2.64	6370	3.8	-	**RXF**	**97**	**EDRE**	**160M4**	150	432
	656	134	2.24*	6080	4.4	-						
	751	117	1.96	5850	4.9	-						
	898	98	1.64	5560	5.2	-						
	1040	85	1.42	5320	5.4	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
9.2	**423**	205	3.48	5050	1.95	-							
	476	184	3.09	5060	2.2	-							
	533	165	2.76*	4930	2.5	-							
	592	148	2.48	4800	2.7	-	**RX**	**87**	**EDRE**	**160M4**	120	429
	682	129	2.15	4630	2.9	-	**RXF**	**87**	**EDRE**	**160M4**	125	430
	762	115	1.93	4500	3.1	-						
	919	96	1.60*	4270	3.3	-						
	1055	83	1.39	4110	3.5	-						
	605	145	2.43	1280	1.40	-						
	690	127	2.13	1500	1.55	-						
	782	112	1.88*	1660	1.65	-	**RX**	**77**	**EDRE**	**160M4**	105	427
	882	100	1.67	1780	1.75	-	**RXF**	**77**	**EDRE**	**160M4**	105	428
	1035	85	1.42	1890	1.80	-						
11.0	**5.4**	17800	270	120000	1.00	-							
	6.4	15000	229	120000	1.20	-	**R**	**167R107**	**EDRE**	**180S4**	900	472
	7.3	13100	200	120000	1.35	-	**RF**	**167R107**	**EDRE**	**180S4**	910	472
	8.7	11000	169	120000	1.65	-	**RM**	**167R107**	**EDRE**	**180S4**	1100	472
	7.8	12500	189	63500	1.05	-	**R**	**147R87**	**EDRE**	**180S4**	550	472
	9.3	10500	159	66900	1.25	-	**RF**	**147R87**	**EDRE**	**180S4**	560	472
							RM	**147R87**	**EDRE**	**180S4**	720	472
	6.4	16400	229.71	120000	1.10	-						
	7.9	13300	186.93*	120000	1.35	-						
	9.6	10900	153.07	120000	1.65	-						
	10	10000	139.98	120000	1.80	-	**R**	**167**	**EDRE**	**180S4**	730	470
	12	8700	121.81*	120000	2.1	-	**RF**	**167**	**EDRE**	**180S4**	730	471
	14	7680	107.49	120000	2.3	-	**RM**	**167**	**EDRE**	**180S4**	930	471
	16	6650	93.19	120000	2.7	-						
	18	5920	82.91*	120000	3.0	-						
	9.0	11600	163.31	65100	1.10	-						
	10	10400	146.91	67000	1.25	-						
	12	8560	119.86	69700	1.50	-						
	13	7810	109.31	70500	1.65	-						
	16	6750	94.60*	71600	1.90	-	**R**	**147**	**EDRE**	**180S4**	480	468
	18	5960	83.47	72200	2.2	-	**RF**	**147**	**EDRE**	**180S4**	490	469
	20	5150	72.09	72800	2.5	-	**RM**	**147**	**EDRE**	**180S4**	660	469
	22	4780	66.99	73100	2.7	-						
	24	4360	61.09	73300	2.9	-						
	28	3770	52.87	73700	3.3	-						
	14	7370	103.20*	54700	1.10	-						
	17	6330	88.70*	56500	1.25	-						
	18	5780	80.91*	57400	1.40	-						
	20	5250	73.49	58100	1.50	-						
	23	4650	65.20	58800	1.70	-	**R**	**137**	**EDRE**	**180S4**	355	466
	25	4220	59.17*	59300	1.90	-	**RF**	**137**	**EDRE**	**180S4**	375	467
	29	3630	50.86*	59800	2.2	-	**RM**	**137**	**EDRE**	**180S4**	490	467
	33	3170	44.39	60200	2.4	-						
	39	2690	37.65	60600	2.7	-						
	45	2350	32.91	60800	3.0	-						
	25	4240	59.41	27500	1.00	-						
	28	3760	52.68	27000	1.15	-						
	31	3400	47.63	26500	1.25	-	**R**	**107**	**EDRE**	**180S4**	270	464
	36	2880	40.37*	25600	1.50	-	**RF**	**107**	**EDRE**	**180S4**	275	465
	42	2510	35.26	24900	1.65	-	**RM**	**107**	**EDRE**	**180S4**	365	465
	50	2100	29.49	23900	1.85	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
11.0	**48**	2190	30.77	24100	1.95	-							
	53	1970	27.58	23500	2.2	-							
	59	1770	24.90*	22900	2.4	-	**R**	**107**	**EDRE**	**180S4**	265	464
	65	1610	22.62	22400	2.7	-	**RF**	**107**	**EDRE**	**180S4**	270	465
	73	1430	20.07	21700	3.0	-	**RM**	**107**	**EDRE**	**180S4**	360	465
	81	1300	18.21	21200	3.3	-						
	44	2370	33.25	18600	1.05	-	**R**	**97**	**EDRE**	**180S4**	215	462
	53	1970	27.58	18000	1.20	-	**RF**	**97**	**EDRE**	**180S4**	230	463
							RM	**97**	**EDRE**	**180S4**	280	463
	59	1780	25.03	17600	1.20	-						
	66	1590	22.37	17200	1.35	-						
	73	1430	20.14	16900	1.45	-						
	81	1300	18.24	16500	1.55	-						
	91	1150	16.17	16000	1.75	-						
	101	1040	14.62	15700	1.90	-	**R**	**97**	**EDRE**	**180S4**	210	462
	119	880	12.39	12800	2.2	-	**RF**	**97**	**EDRE**	**180S4**	225	463
	136	770	10.83	13100	2.5	-	**RM**	**97**	**EDRE**	**180S4**	280	463
	158	660	9.29	12000	2.5	-						
	175	595	8.39	12100	2.7	-						
	207	505	7.12	12300	3.0	-						
	237	440	6.21	12300	3.3	-						
	96	1090	15.35	12500	1.05	-						
	110	950	13.33	12100	1.15	-						
	123	850	11.93	11800	1.30	-						
	148	705	9.90*	11300	1.50	-	**R**	**87**	**EDRE**	**180S4**	170	459
	161	650	9.14*	11400	1.50	-	**RF**	**87**	**EDRE**	**180S4**	175	460
	179	585	8.22	11100	1.60	-	**RM**	**87**	**EDRE**	**180S4**	205	460
	206	505	7.13	10700	1.80	-						
	230	455	6.39	10400	1.95	-						
	277	375	5.30*	9850	2.2	-						
	283	370	5.19	8960	1.85	-						
	316	330	4.65	8730	2.1	-						
	350	300	4.20*	8510	2.5	-						
	385	270	3.81	8310	2.9	-	**RX**	**107**	**EDRE**	**180S4**	210	433
	434	240	3.38	8050	3.4	-	**RXF**	**107**	**EDRE**	**180S4**	225	434
	479	215	3.07	7850	3.8	-						
	557	189	2.64*	7530	4.4	-						
	325	320	4.52	7120	1.85	-						
	364	285	4.04	6940	2.1	-						
	404	260	3.64*	6770	2.3	-						
	446	235	3.30	6610	2.5	-						
	503	205	2.92	6410	2.8	-	**RX**	**97**	**EDRE**	**180S4**	175	431
	556	189	2.64	6240	3.2	-	**RXF**	**97**	**EDRE**	**180S4**	185	432
	656	160	2.24*	5970	3.7	-						
	751	140	1.96	5760	4.1	-						
	898	117	1.64	5470	4.3	-						
	1040	101	1.42	5250	4.5	-						
	423	245	3.48	3960	1.65	-						
	476	220	3.09	4160	1.85	-						
	533	197	2.76*	4290	2.0	-						
	592	177	2.48	4380	2.3	-	**RX**	**87**	**EDRE**	**180S4**	150	429
	682	154	2.15	4440	2.4	-	**RXF**	**87**	**EDRE**	**180S4**	155	430
	762	138	1.93	4380	2.6	-						
	919	114	1.60*	4180	2.8	-						
	1055	99	1.39	4030	2.9	-						
15.0	**7.3**	18000	200	120000	1.00	-	**R**	**167R107**	**EDRE**	**180M4**	920	472
	8.7	15100	169	120000	1.20	-	**RF**	**167R107**	**EDRE**	**180M4**	930	472
							RM	**167R107**	**EDRE**	**180M4**	1120	472

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
15.0	**9.6**	14900	153.07	120000	1.20	-							
	10	13600	139.98	120000	1.30	-							
	12	11800	121.81*	120000	1.50	-							
	14	10400	107.49	120000	1.70	-	**R**	**167**	**EDRE**	**180M4**	740	470
	16	9080	93.19	120000	2.00	-	**RF**	**167**	**EDRE**	**180M4**	750	471
	18	8070	82.91*	120000	2.2	-	**RM**	**167**	**EDRE**	**180M4**	950	471
	20	7180	73.70*	120000	2.5	-						
	22	6560	67.40	120000	2.7	-						
	12	11600	119.86	65100	1.10	-							
	13	10600	109.31	66800	1.20	-							
	16	9210	94.60*	68800	1.40	-							
	18	8130	83.47	70200	1.60	-	**R**	**147**	**EDRE**	**180M4**	500	468
	20	7020	72.09	71300	1.85	-	**RF**	**147**	**EDRE**	**180M4**	510	469
	22	6520	66.99	71800	2.00	-	**RM**	**147**	**EDRE**	**180M4**	670	469
	24	5950	61.09	72200	2.2	-						
	28	5150	52.87	72800	2.4	-						
	32	4540	46.65	73200	2.7	-						
	18	7880	80.91*	53600	1.00	-							
	20	7160	73.49	55100	1.10	-							
	23	6350	65.20	56500	1.25	-							
	25	5760	59.17*	57400	1.40	-	**R**	**137**	**EDRE**	**180M4**	370	466
	29	4950	50.86*	58500	1.60	-	**RF**	**137**	**EDRE**	**180M4**	395	467
	33	4320	44.39	59200	1.75	-	**RM**	**137**	**EDRE**	**180M4**	500	467
	39	3660	37.65	59800	2.0	-						
	45	3200	32.91	60200	2.2	-						
	53	2710	27.83	60500	2.5	-						
	36	3930	40.37*	23900	1.10	-	**R**	**107**	**EDRE**	**180M4**	285	464
	42	3430	35.26	23400	1.20	-	**RF**	**107**	**EDRE**	**180M4**	295	465
	50	2870	29.49	22600	1.35	-	**RM**	**107**	**EDRE**	**180M4**	380	465
	48	2990	30.77	22800	1.45	-						
	53	2680	27.58	22300	1.60	-						
	59	2420	24.90*	21900	1.75	-						
	65	2200	22.62	21400	1.95	-	**R**	**107**	**EDRE**	**180M4**	280	464
	73	1950	20.07	20800	2.2	-	**RF**	**107**	**EDRE**	**180M4**	285	465
	81	1770	18.21	20400	2.4	-	**RM**	**107**	**EDRE**	**180M4**	375	465
	94	1520	15.65	19600	2.8	-						
	108	1330	13.66	19000	3.2	-						
	73	1960	20.14	15800	1.05	-							
	81	1770	18.24	15500	1.15	-							
	91	1570	16.17	15200	1.25	-							
	101	1420	14.62	14900	1.40	-							
	119	1200	12.39	8950	1.60	-	**R**	**97**	**EDRE**	**180M4**	225	462
	136	1050	10.83	9730	1.80	-	**RF**	**97**	**EDRE**	**180M4**	245	463
	158	900	9.29	8630	1.80	-	**RM**	**97**	**EDRE**	**180M4**	295	463
	175	810	8.39	9130	1.95	-						
	207	690	7.12	9750	2.2	-						
	237	605	6.21	10100	2.4	-						
	148	960	9.90*	10700	1.10	-							
	161	890	9.14*	11000	1.10	-							
	179	800	8.22	10700	1.20	-	**R**	**87**	**EDRE**	**180M4**	185	459
	206	695	7.13	10300	1.30	-	**RF**	**87**	**EDRE**	**180M4**	195	460
	230	620	6.39	10100	1.45	-	**RM**	**87**	**EDRE**	**180M4**	225	460
	277	515	5.30*	9580	1.60	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
15.0	**283**	505	5.19	8420	1.35	-							
	316	450	4.65	8240	1.55	-							
	350	405	4.20*	8080	1.85	-							
	385	370	3.81	7910	2.2	-							
	434	325	3.38	7700	2.5	-							
	479	295	3.07	7520	2.8	-	**RX**	**107**	**EDRE**	**180M4**	225	433	
	557	255	2.64*	7240	3.2	-	**RXF**	**107**	**EDRE**	**180M4**	240	434	
	638	220	2.30	7000	3.7	-							
	752	190	1.95	6690	4.0	-							
	860	166	1.71	6450	4.2	-							
	1020	141	1.44	6160	4.6	-							
	325	440	4.52	5400	1.35	-							
	364	390	4.04	5690	1.50	-							
	404	350	3.64*	5900	1.70	-							
	446	320	3.30	6060	1.85	-							
	503	280	2.92	6100	2.1	-	**RX**	**97**	**EDRE**	**180M4**	195	431	
	556	255	2.64	5960	2.3	-	**RXF**	**97**	**EDRE**	**180M4**	200	432	
	656	215	2.24*	5720	2.7	-							
	751	191	1.96	5540	3.0	-							
	898	160	1.64	5280	3.2	-							
	1040	138	1.42	5080	3.3	-							
	423	335	3.48	1530	1.20	-							
	476	300	3.09	1950	1.35	-							
	533	265	2.76*	2270	1.50	-							
	592	240	2.48	2520	1.65	-	**RX**	**87**	**EDRE**	**180M4**	170	429	
	682	205	2.15	2760	1.80	-	**RXF**	**87**	**EDRE**	**180M4**	175	430	
	762	188	1.93	2920	1.90	-							
	919	156	1.60*	3050	2.0	-							
	1055	136	1.39	3180	2.1	-							
18.5	**10**	16800	139.98	120000	1.05	-							
	12	14600	121.81*	120000	1.25	-							
	14	12900	107.49	120000	1.40	-							
	16	11100	93.19	120000	1.60	-	**R**	**167**	**EDRE**	**180L4**	760	470	
	18	9960	82.91*	120000	1.80	-	**RF**	**167**	**EDRE**	**180L4**	760	471	
	20	8850	73.70*	120000	2.0	-	**RM**	**167**	**EDRE**	**180L4**	960	471	
	22	8090	67.40	120000	2.2	-							
	25	7040	58.65	120000	2.6	-							
	16	11300	94.60*	65700	1.15	-							
	18	10000	83.47	67700	1.30	-							
	20	8660	72.09	69500	1.50	-							
	22	8050	66.99	70300	1.60	-	**R**	**147**	**EDRE**	**180L4**	510	468	
	24	7340	61.09	71000	1.75	-	**RF**	**147**	**EDRE**	**180L4**	520	469	
	28	6350	52.87	71900	1.95	-	**RM**	**147**	**EDRE**	**180L4**	680	469	
	32	5600	46.65	72500	2.2	-							
	36	4840	40.29	73000	2.5	-							
	23	7830	65.20	53700	1.00	-							
	25	7110	59.17*	55200	1.15	-							
	29	6110	50.86*	56900	1.30	-	**R**	**137**	**EDRE**	**180L4**	380	466	
	33	5330	44.39	58000	1.40	-	**RF**	**137**	**EDRE**	**180L4**	405	467	
	39	4520	37.65	59000	1.60	-	**RM**	**137**	**EDRE**	**180L4**	520	467	
	45	3950	32.91	59500	1.80	-							
	53	3340	27.83	60100	2.1	-							
	50	3550	29.57*	59900	2.2	-							
	61	2890	24.12	60400	2.6	-	**R**	**137**	**EDRE**	**180L4**	370	466	
	67	2640	22.00*	60600	2.8	-	**RF**	**137**	**EDRE**	**180L4**	395	467	
	77	2280	19.04*	60800	3.2	-	**RM**	**137**	**EDRE**	**180L4**	510	467	
	88	2010	16.80*	60900	3.6	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
18.5	**50**	3540	29.49	21500	1.10	-		**R**	**107**	**EDRE**	**180L4**	300	464
								RF	**107**	**EDRE**	**180L4**	305	465
								RM	**107**	**EDRE**	**180L4**	390	465
	59	2990	24.90*	20900	1.45	-							
	65	2710	22.62	20600	1.60	-							
	73	2410	20.07	20100	1.80	-							
	81	2180	18.21	19700	1.95	-							
	94	1880	15.65	19100	2.3	-		**R**	**107**	**EDRE**	**180L4**	290	464
	108	1640	13.66	18500	2.6	-		**RF**	**107**	**EDRE**	**180L4**	300	465
	127	1390	11.59	17800	3.1	-		**RM**	**107**	**EDRE**	**180L4**	385	465
	145	1210	10.13	17200	3.5	-							
	187	940	7.86	16300	3.2	-							
	221	800	6.66	15600	3.7	-							
	91	1940	16.17	14400	1.05	-							
	101	1750	14.62	14200	1.10	-							
	119	1480	12.39	13800	1.30	-							
	136	1300	10.83	13400	1.45	-							
	158	1110	9.29	13400	1.45	-		**R**	**97**	**EDRE**	**180L4**	240	462
	175	1000	8.39	13100	1.60	-		**RF**	**97**	**EDRE**	**180L4**	255	463
	207	850	7.12	12600	1.80	-		**RM**	**97**	**EDRE**	**180L4**	305	463
	237	745	6.21	12100	2.00	-							
	283	620	5.20	11500	2.3	-							
	327	540	4.50*	11100	2.5	-							
	206	850	7.13	10000	1.05	-		**R**	**87**	**EDRE**	**180L4**	200	459
	230	765	6.39	9770	1.15	-		**RF**	**87**	**EDRE**	**180L4**	205	460
	277	635	5.30*	9340	1.30	-		**RM**	**87**	**EDRE**	**180L4**	235	460
	350	500	4.20*	7460	1.50	-							
	385	455	3.81	7570	1.75	-							
	434	405	3.38	7390	2.0	-							
	479	365	3.07	7240	2.2	-							
	557	315	2.64*	7000	2.6	-		**RX**	**107**	**EDRE**	**180L4**	235	433
	638	275	2.30	6780	3.0	-		**RXF**	**107**	**EDRE**	**180L4**	255	434
	752	230	1.95	6510	3.3	-							
	860	205	1.71	6280	3.4	-							
	1020	174	1.44	6010	3.7	-							
	404	435	3.64*	4120	1.35	-							
	446	395	3.30	4420	1.50	-							
	503	350	2.92	4730	1.70	-							
	556	315	2.64	4900	1.85	-		**RX**	**97**	**EDRE**	**180L4**	205	431
	656	265	2.24*	5060	2.2	-		**RXF**	**97**	**EDRE**	**180L4**	210	432
	751	235	1.96	5200	2.4	-							
	898	197	1.64	5120	2.6	-							
	1040	170	1.42	4930	2.7	-							
	533	330	2.76*	500	1.20	-							
	592	295	2.48	890	1.35	-							
	682	255	2.15	1290	1.45	-		**RX**	**87**	**EDRE**	**180L4**	180	429
	762	230	1.93	1550	1.55	-		**RXF**	**87**	**EDRE**	**180L4**	185	430
	919	192	1.60*	1840	1.65	-							
	1055	167	1.39	2100	1.75	-							
22	**12**	17200	121.81*	120000	1.05	-							
	14	15200	107.49	120000	1.20	-							
	16	13200	93.19	120000	1.35	-							
	18	11700	82.91*	120000	1.55	-		**R**	**167**	**EDRE**	**200L4**	860	470
	20	10400	73.70*	120000	1.70	-		**RF**	**167**	**EDRE**	**200L4**	870	471
	22	9560	67.40	120000	1.90	-		**RM**	**167**	**EDRE**	**200L4**	1060	471
	25	8320	58.65	120000	2.2	-							
	29	7340	51.76	120000	2.4	-							
	33	6360	44.87	120000	2.8	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
22	**18**	11800	83.47	64800	1.10	-							
	21	10200	72.09	67400	1.25	-							
	22	9500	66.99	68500	1.35	-							
	24	8670	61.09	69500	1.50	-	**R**	**147**	**EDRE**	**200L4**	610	468
	28	7500	52.87	70800	1.65	-	**RF**	**147**	**EDRE**	**200L4**	620	469
	32	6620	46.65	71700	1.85	-	**RM**	**147**	**EDRE**	**200L4**	790	469
	37	5710	40.29	72400	2.1	-						
	42	5050	35.64	72900	2.3	-						
	49	4250	29.95	73400	2.7	-						
	29	7210	50.86*	55000	1.10	-						
	33	6300	44.39	56600	1.20	-	**R**	**137**	**EDRE**	**200L4**	485	466
	39	5340	37.65	58000	1.35	-	**RF**	**137**	**EDRE**	**200L4**	510	467
	45	4670	32.91	58800	1.50	-	**RM**	**137**	**EDRE**	**200L4**	620	467
	53	3940	27.83	59600	1.75	-						
	50	4190	29.57*	59300	1.85	-						
	61	3420	24.12	60000	2.2	-						
	67	3120	22.00*	60300	2.4	-	**R**	**137**	**EDRE**	**200L4**	475	466
	78	2700	19.04*	60500	2.7	-	**RF**	**137**	**EDRE**	**200L4**	500	467
	88	2380	16.80*	60700	3.0	-	**RM**	**137**	**EDRE**	**200L4**	610	467
	102	2050	14.51	60900	3.5	-						
	115	1820	12.83	61000	4.0	-						
	59	3530	24.90*	20000	1.20	-						
	65	3210	22.62	19700	1.35	-						
	74	2840	20.07	19300	1.50	-						
	81	2580	18.21	19000	1.65	-						
	95	2220	15.65	18400	1.95	-						
	108	1930	13.66	17900	2.2	-	**R**	**107**	**EDRE**	**200L4**	395	464
	128	1640	11.59	17300	2.6	-	**RF**	**107**	**EDRE**	**200L4**	400	465
	146	1430	10.13	16800	3.0	-	**RM**	**107**	**EDRE**	**200L4**	490	465
	173	1210	8.56	16100	3.5	-						
	188	1110	7.86	16000	2.7	-						
	222	940	6.66	15300	3.1	-						
	254	820	5.82	14800	3.6	-						
	119	1750	12.39	13200	1.10	-						
	137	1530	10.83	12900	1.25	-						
	159	1310	9.29	13100	1.25	-						
	176	1190	8.39	12800	1.35	-	**R**	**97**	**EDRE**	**200L4**	340	462
	208	1010	7.12	12300	1.50	-	**RF**	**97**	**EDRE**	**200L4**	360	463
	238	880	6.21	11900	1.70	-	**RM**	**97**	**EDRE**	**200L4**	410	463
	285	735	5.20	11300	1.90	-						
	329	635	4.50*	10900	2.1	-						
	352	595	4.20*	5860	1.25	-						
	388	540	3.81	6150	1.50	-						
	437	480	3.38	6440	1.75	-						
	482	435	3.07	6600	1.90	-						
	561	370	2.64*	6740	2.2	-	**RX**	**107**	**EDRE**	**200L4**	340	433
	642	325	2.30	6550	2.5	-	**RXF**	**107**	**EDRE**	**200L4**	355	434
	757	275	1.95	6300	2.8	-						
	866	240	1.71	6100	2.9	-						
	1025	205	1.44	5850	3.2	-						
	407	515	3.64*	2390	1.15	-						
	449	465	3.30	2820	1.25	-						
	506	410	2.92	3280	1.45	-						
	560	375	2.64	3560	1.60	-	**RX**	**97**	**EDRE**	**200L4**	305	431
	661	315	2.24*	3870	1.85	-	**RXF**	**97**	**EDRE**	**200L4**	315	432
	756	275	1.96	4120	2.0	-						
	904	230	1.64	4260	2.2	-						
	1045	200	1.42	4320	2.3	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
30	**16**	18000	93.19	120000	1.00	-							
	18	16000	82.91*	120000	1.10	-							
	20	14200	73.70*	120000	1.25	-							
	22	13000	67.40	120000	1.40	-							
	25	11300	58.65	120000	1.60	-	**R**	**167**	**EDRE**	**225S4**	890	470
	29	10000	51.76	120000	1.80	-	**RF**	**167**	**EDRE**	**225S4**	900	471
	33	8680	44.87	120000	2.1	-	**RM**	**167**	**EDRE**	**225S4**	1100	471
	37	7720	39.92	120000	2.3	-						
	43	6660	34.41	120000	2.6	-						
	53	5410	27.96	120000	3.0	-						
	62	4580	23.71	120000	3.4	M2						
	22	12900	66.99	62700	1.00	-						
	24	11800	61.09	64900	1.10	-						
	28	10200	52.87	67400	1.20	-						
	32	9030	46.65	69100	1.35	-	**R**	**147**	**EDRE**	**225S4**	650	468
	37	7790	40.29	70500	1.55	-	**RF**	**147**	**EDRE**	**225S4**	660	469
	42	6890	35.64	71400	1.70	-	**RM**	**147**	**EDRE**	**225S4**	820	469
	49	5790	29.95	72400	1.95	-						
	61	4680	24.19	73200	2.3	M2						
	72	3950	20.44	73600	3.0	-	**R**	**147**	**EDRE**	**225S4**	630	468
	82	3490	18.04	73800	3.0	-	**RF**	**147**	**EDRE**	**225S4**	640	469
	95	3020	15.64	74000	4.3	-	**RM**	**147**	**EDRE**	**225S4**	810	469
	39	7280	37.65	54800	1.00	-	**R**	**137**	**EDRE**	**225S4**	520	466
	45	6370	32.91	56500	1.10	-	**RF**	**137**	**EDRE**	**225S4**	540	467
	53	5380	27.83	57900	1.30	-	**RM**	**137**	**EDRE**	**225S4**	650	467
	61	4660	24.12	58800	1.60	-						
	67	4250	22.00*	59200	1.75	-						
	78	3680	19.04*	59800	2.00	-						
	88	3250	16.80*	60200	2.2	-	**R**	**137**	**EDRE**	**225S4**	510	466
	102	2800	14.51	59500	2.6	-	**RF**	**137**	**EDRE**	**225S4**	530	467
	115	2480	12.83	58300	2.9	-	**RM**	**137**	**EDRE**	**225S4**	640	467
	137	2080	10.79	56600	3.5	-						
	195	1460	7.59	53200	3.5	-						
	232	1230	6.38	51200	4.1	-						
	74	3880	20.07	17600	1.10	-						
	81	3520	18.21	17400	1.20	-						
	95	3020	15.65	17100	1.40	-						
	108	2640	13.66	16800	1.65	-						
	128	2240	11.59	16300	1.90	-	**R**	**107**	**EDRE**	**225S4**	430	464
	146	1960	10.13	15900	2.2	-	**RF**	**107**	**EDRE**	**225S4**	435	465
	173	1650	8.56	15300	2.6	-	**RM**	**107**	**EDRE**	**225S4**	520	465
	188	1520	7.86	15500	1.95	-						
	222	1280	6.66	14800	2.3	-						
	254	1120	5.82	14300	2.6	-						
	301	950	4.92	13700	3.0	-						
	208	1370	7.12	11700	1.10	-						
	238	1200	6.21	11300	1.25	-	**R**	**97**	**EDRE**	**225S4**	375	462
	285	1000	5.20	10900	1.40	-	**RF**	**97**	**EDRE**	**225S4**	390	463
	329	870	4.50*	10500	1.55	-	**RM**	**97**	**EDRE**	**225S4**	445	463
	437	655	3.38	3350	1.25	-						
	482	590	3.07	3740	1.40	-						
	561	510	2.64*	4220	1.60	-						
	642	445	2.30	4560	1.85	-	**RX**	**107**	**EDRE**	**225S4**	375	433
	757	375	1.95	4820	2.0	-	**RXF**	**107**	**EDRE**	**225S4**	390	434
	866	330	1.71	4960	2.1	-						
	1025	275	1.44	5120	2.3	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
30	**560**	510	2.64	450	1.15	-							
	661	430	2.24*	1100	1.35	-							
	756	375	1.96	1630	1.50	-		**RX**	**97**	**EDRE**	**225S4**	340	431
	904	315	1.64	2050	1.60	-		**RXF**	**97**	**EDRE**	**225S4**	350	432
	1045	270	1.42	2310	1.65	-							
37	**20**	17500	73.70*	120000	1.00	-							
	22	16000	67.40	120000	1.10	-							
	25	14000	58.65	120000	1.30	-							
	29	12300	51.76	120000	1.45	-		**R**	**167**	**EDRE**	**225M4**	910	470
	33	10700	44.87	120000	1.70	-		**RF**	**167**	**EDRE**	**225M4**	920	471
	37	9530	39.92	120000	1.90	-		**RM**	**167**	**EDRE**	**225M4**	1110	471
	43	8210	34.41	120000	2.1	-							
	53	6670	27.96	120000	2.5	-							
	48	7330	30.71	120000	1.35	-							
	60	5860	24.57	120000	2.4	-		**R**	**167**	**EDRE**	**225M4**	910	470
	68	5210	21.85	120000	2.5	-		**RF**	**167**	**EDRE**	**225M4**	910	471
	78	4540	19.03	120000	3.5	-		**RM**	**167**	**EDRE**	**225M4**	1110	471
	87	4050	16.98	120000	3.7	-							
	32	11100	46.65	66000	1.10	-							
	37	9610	40.29	68300	1.25	-		**R**	**147**	**EDRE**	**225M4**	670	468
	42	8500	35.64	69700	1.40	-		**RF**	**147**	**EDRE**	**225M4**	670	469
	49	7150	29.95	71200	1.60	-		**RM**	**147**	**EDRE**	**225M4**	840	469
	61	5770	24.19	72400	1.85	M2							
	72	4870	20.44	73000	2.5	-		**R**	**147**	**EDRE**	**225M4**	650	468
	82	4300	18.04	73400	2.4	-		**RF**	**147**	**EDRE**	**225M4**	660	469
	95	3730	15.64	73700	3.5	-		**RM**	**147**	**EDRE**	**225M4**	830	469
	106	3320	13.91	73900	3.8	-							
	53	6640	27.83	56000	1.05	M2		**R**	**137**	**EDRE**	**225M4**	540	466
								RF	**137**	**EDRE**	**225M4**	560	467
								RM	**137**	**EDRE**	**225M4**	670	467
	61	5750	24.12	57400	1.30	-							
	67	5250	22.00*	58100	1.40	-							
	78	4540	19.04*	57800	1.60	-							
	88	4010	16.80*	57300	1.80	-							
	102	3460	14.51	56500	2.1	-		**R**	**137**	**EDRE**	**225M4**	530	466
	115	3060	12.83	55700	2.4	-		**RF**	**137**	**EDRE**	**225M4**	550	467
	137	2570	10.79	54400	2.8	-		**RM**	**137**	**EDRE**	**225M4**	660	467
	170	2070	8.71	52500	3.5	M2							
	195	1810	7.59	51800	2.8	-							
	232	1520	6.38	50000	3.4	-							
	287	1230	5.15	47700	3.7	M2							
	95	3730	15.65	15900	1.15	-							
	108	3260	13.66	15700	1.30	-							
	128	2760	11.59	15400	1.55	-							
	146	2410	10.13	15100	1.80	-		**R**	**107**	**EDRE**	**225M4**	450	464
	173	2040	8.56	14700	2.1	-		**RF**	**107**	**EDRE**	**225M4**	455	465
	188	1870	7.86	15000	1.60	-		**RM**	**107**	**EDRE**	**225M4**	540	465
	222	1590	6.66	14400	1.85	-							
	254	1390	5.82	14000	2.1	-							
	301	1170	4.92	13400	2.5	-							
	437	800	3.38	640	1.05	-							
	482	730	3.07	1240	1.15	-							
	561	630	2.64*	1990	1.30	-							
	642	550	2.30	2560	1.50	-		**RX**	**107**	**EDRE**	**225M4**	395	433
	757	465	1.95	3040	1.65	-		**RXF**	**107**	**EDRE**	**225M4**	410	434
	866	405	1.71	3340	1.75	-							
	1025	340	1.44	3700	1.85	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
45	**25**	17000	58.65	120000	1.05	-							
	29	15000	51.76	120000	1.20	-							
	33	13000	44.87	120000	1.40	-	**R**	**167**	**EDRE**	**225M4**	910	470
	37	11500	39.92	120000	1.55	-	**RF**	**167**	**EDRE**	**225M4**	920	471
	43	9990	34.41	120000	1.75	-	**RM**	**167**	**EDRE**	**225M4**	1110	471
	53	8110	27.96	120000	2.0	-						
	62	6880	23.71	120000	2.3	M2						
	48	8910	30.71	120000	1.10	-						
	60	7130	24.57	120000	1.95	-	**R**	**167**	**EDRE**	**225M4**	910	470
	68	6340	21.85	120000	2.0	-	**RF**	**167**	**EDRE**	**225M4**	910	471
	78	5520	19.03	120000	2.9	-	**RM**	**167**	**EDRE**	**225M4**	1110	471
	87	4930	16.98	120000	3.0	-						
	37	11600	40.29	65100	1.05	-						
	42	10300	35.64	67300	1.15	-	**R**	**147**	**EDRE**	**225M4**	670	468
	49	8690	29.95	69500	1.30	-	**RF**	**147**	**EDRE**	**225M4**	670	469
	61	7020	24.19	71300	1.55	M2	**RM**	**147**	**EDRE**	**225M4**	840	469
	72	5930	20.44	72300	2.0	-						
	82	5230	18.04	72800	2.0	-						
	95	4540	15.64	73200	2.9	-	**R**	**147**	**EDRE**	**225M4**	650	468
	106	4030	13.91	73500	3.1	-	**RF**	**147**	**EDRE**	**225M4**	660	469
	123	3480	11.99	73800	3.7	-	**RM**	**147**	**EDRE**	**225M4**	830	469
	204	2100	7.25	74300	4.1	-						
	61	7000	24.12	49800	1.05	-						
	67	6380	22.00*	52200	1.15	-						
	78	5520	19.04*	53300	1.30	-						
	88	4870	16.80*	53400	1.50	-						
	102	4210	14.51	53100	1.70	-	**R**	**137**	**EDRE**	**225M4**	530	466
	115	3720	12.83	52700	1.95	-	**RF**	**137**	**EDRE**	**225M4**	550	467
	137	3130	10.79	51900	2.3	-	**RM**	**137**	**EDRE**	**225M4**	660	467
	170	2520	8.71	50500	2.9	M2						
	195	2200	7.59	50200	2.3	-						
	232	1850	6.38	48600	2.8	-						
	287	1490	5.15	46600	3.1	M2						
	108	3960	13.66	14600	1.10	-						
	128	3360	11.59	14400	1.30	-						
	146	2940	10.13	14300	1.45	-						
	173	2480	8.56	14000	1.75	M2	**R**	**107**	**EDRE**	**225M4**	450	464
	188	2280	7.86	14400	1.30	-	**RF**	**107**	**EDRE**	**225M4**	455	465
	222	1930	6.66	13900	1.55	-	**RM**	**107**	**EDRE**	**225M4**	540	465
	254	1690	5.82	13600	1.75	-						
	301	1420	4.92	13000	2.0	M2						
	642	665	2.30	270	1.25	-						
	757	565	1.95	1010	1.35	-	**RX**	**107**	**EDRE**	**225M4**	395	433
	866	495	1.71	1490	1.40	-	**RXF**	**107**	**EDRE**	**225M4**	410	434
	1025	415	1.44	2060	1.55	M2						
55	**33**	15900	44.87	120000	1.15	-						
	37	14200	39.92	120000	1.25	-	**R**	**167**	**DV**	**250M4**	1060	470
	43	12200	34.41	120000	1.40	-	**RF**	**167**	**DV**	**250M4**	1060	471
	53	9950	27.96	120000	1.65	-	**RM**	**167**	**DV**	**250M4**	1260	471
	62	8440	23.71	120000	1.85	M2						
	60	8740	24.57	120000	1.60	-						
	68	7770	21.85	120000	1.65	-						
	77	6770	19.03	120000	2.4	-	**R**	**167**	**DV**	**250M4**	1050	470
	87	6040	16.98	120000	2.5	-	**RF**	**167**	**DV**	**250M4**	1060	471
	102	5150	14.48	120000	3.2	-	**RM**	**167**	**DV**	**250M4**	1250	471
	123	4270	11.99	120000	3.8	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
55	**49**	10600	29.95	66800	1.05	M2		**R**	**147**	**DV**	**250M4**	800	468
	61	8610	24.19	69600	1.25	M2		**RF**	**147**	**DV**	**250M4**	810	469
								RM	**147**	**DV**	**250M4**	980	469
	72	7270	20.44	71100	1.65	-							
	82	6420	18.04	71900	1.65	-							
	94	5560	15.64	72500	2.3	-							
	106	4950	13.91	73000	2.5	-		**R**	**147**	**DV**	**250M4**	790	468
	123	4260	11.99	73400	3.0	-		**RF**	**147**	**DV**	**250M4**	800	469
	151	3460	9.74	73800	3.8	M2		**RM**	**147**	**DV**	**250M4**	970	469
	203	2580	7.25	74200	3.4	-							
	250	2090	5.89	72500	4.1	M2							
	77	6770	19.04*	44200	1.10	-							
	88	5980	16.80*	47400	1.20	-							
	102	5160	14.51	48900	1.40	-							
	115	4560	12.83	49000	1.60	-		**R**	**137**	**DV**	**250M4**	660	466
	137	3840	10.79	48800	1.90	-		**RF**	**137**	**DV**	**250M4**	690	467
	169	3100	8.71	48000	2.4	-		**RM**	**137**	**DV**	**250M4**	800	467
	194	2700	7.59	48100	1.90	-							
	231	2270	6.38	46900	2.2	-							
	286	1830	5.15	45200	2.5	-							
75	**43**	16600	34.41	118200	1.05	-		**R**	**167**	**DV**	**280S4**	1190	470
	53	13500	27.96	120000	1.20	M2		**RF**	**167**	**DV**	**280S4**	1190	471
	62	11400	23.71	120000	1.35	M2,4		**RM**	**167**	**DV**	**280S4**	1390	471
	60	11800	24.57	120000	1.20	-							
	68	10500	21.85	120000	1.25	-							
	78	9210	19.03	120000	1.75	-		**R**	**167**	**DV**	**280S4**	1180	470
	87	8210	16.98	120000	1.85	-		**RF**	**167**	**DV**	**280S4**	1190	471
	102	7000	14.48	120000	2.3	-		**RM**	**167**	**DV**	**280S4**	1380	471
	123	5800	11.99	116600	2.8	-							
	145	4950	10.24	112800	3.3	M2							
	72	9890	20.44	67900	1.20	-							
	82	8720	18.04	69500	1.20	-							
	95	7560	15.64	70800	1.70	-							
	106	6730	13.91	71600	1.85	-							
	123	5800	11.99	72400	2.2	-		**R**	**147**	**DV**	**280S4**	930	468
	152	4710	9.74	73100	2.8	M2		**RF**	**147**	**DV**	**280S4**	940	469
	179	3990	8.26	73500	3.2	M2,4		**RM**	**147**	**DV**	**280S4**	1100	469
	204	3500	7.25	73100	2.5	-							
	251	2850	5.89	70100	3.0	M2							
	296	2410	5.00	67600	3.4	M2,4							

9.2 Selection tables for paralel-shaft helical gearmotors /3GD T3

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.12	**0.07**	11800	19048	90000	1.00	-								
	0.08	10300	16656	90000	1.15	-		**FA**	**127R77**	**DR**	**63S4**		425	527
	0.09	9180	14722	90000	1.30	-	X	**FAF**	**127R77**	**DR**	**63S4**		465	527
	0.11	7990	12912	90000	1.50	-	X	**F**	**127R77**	**DR**	**63S4**		460	527
	0.12	7040	11656	90000	1.70	-	X	**FF**	**127R77**	**DR**	**63S4**		510	527
	0.14	6310	10191	90000	1.90	-	X							
	0.12	7070	11348	51400	1.10	-								
	0.14	5740	10039	54600	1.35	-	X							
	0.16	4670	8548	57000	1.65	-	X							
	0.18	4750	7674	56800	1.60	-	X	**FA**	**107R77**	**DR**	**63S4**		275	527
	0.20	4090	6767	58200	1.90	-	X	**FAF**	**107R77**	**DR**	**63S4**		295	527
	0.23	3460	5954	59500	2.2	-	X	**F**	**107R77**	**DR**	**63S4**		290	527
	0.26	2990	5223	60400	2.6	-	X	**FF**	**107R77**	**DR**	**63S4**		320	527
	0.30	2840	4567	60700	2.7	-								
	0.39	2120	3521	62000	3.6	-								
	0.21	4140	6469	30400	1.05	-		**FA**	**97R57**	**DR**	**63S4**		185	527
	0.25	3820	5615	31300	1.15	-		**FAF**	**97R57**	**DR**	**63S4**		205	527
	0.28	3320	4961	32500	1.30	-	X	**F**	**97R57**	**DR**	**63S4**		190	527
	0.32	2900	4333	33500	1.50	-	X	**FF**	**97R57**	**DR**	**63S4**		225	527
	0.35	2690	3906	34000	1.60	-	X	**FA**	**97R57**	**DR**	**63S4**		180	527
	0.41	2320	3352	34800	1.85	-	X	**FAF**	**97R57**	**DR**	**63S4**		205	527
	0.47	1910	2907	35500	2.2	-		**F**	**97R57**	**DR**	**63S4**		190	527
	0.54	1750	2553	35800	2.4	-		**FF**	**97R57**	**DR**	**63S4**		225	527
	0.33	2760	4245	23800	1.10	-		**FA**	**87R57**	**DR**	**63S4**		120	527
	0.37	2210	3721	25800	1.35	-	X	**FAF**	**87R57**	**DR**	**63S4**		130	527
								F	**87R57**	**DR**	**63S4**		125	527
								FF	**87R57**	**DR**	**63S4**		140	527
	0.43	2240	3244	25700	1.35	-	X							
	0.48	1990	2881	26500	1.50	-	X							
	0.54	1780	2576	27100	1.70	-	X							
	0.63	1510	2199	27800	2.00	-	X	**FA**	**87R57**	**DR**	**63S4**		115	527
	0.72	1300	1930	28300	2.3	-		**FAF**	**87R57**	**DR**	**63S4**		130	527
	0.81	1170	1709	28600	2.6	-		**F**	**87R57**	**DR**	**63S4**		125	527
	0.92	1030	1493	28900	2.9	-		**FF**	**87R57**	**DR**	**63S4**		140	527
	1.1	820	1300	29300	3.7	-								
	1.2	745	1148	29500	4.0	-								
	0.68	1380	2029	16400	1.10	-		**FA**	**77R37**	**DR**	**63S4**		65	527
								FAF	**77R37**	**DR**	**63S4**		72	527
								F	**77R37**	**DR**	**63S4**		69	527
								FF	**77R37**	**DR**	**63S4**		80	527
	0.80	1180	1728	17500	1.25	-	X							
	0.89	1090	1544	17900	1.40	-	X							
	1.0	950	1354	18500	1.55	-	X	**FA**	**77R37**	**DR**	**63S4**		65	527
	1.2	840	1200	18800	1.75	-	X	**FAF**	**77R37**	**DR**	**63S4**		72	527
	1.3	740	1053	19100	2.0	-		**F**	**77R37**	**DR**	**63S4**		69	527
	1.5	630	910	19400	2.4	-		**FF**	**77R37**	**DR**	**63S4**		80	527
	1.7	525	810	19600	2.8	-								
	1.9	460	710	19800	3.2	-								
	1.2	725	1102	11100	1.15	-								
	1.4	635	970	11700	1.30	-	X							
	1.6	560	858	12100	1.45	-	X	**FA**	**67R37**	**DR**	**63S4**		43	527
	1.8	490	755	12400	1.65	-	X	**FAF**	**67R37**	**DR**	**63S4**		49	527
	2.2	415	641	12700	1.95	-	X	**F**	**67R37**	**DR**	**63S4**		46	527
	2.4	390	572	12800	2.1	-		**FF**	**67R37**	**DR**	**63S4**		52	527
	2.7	330	509	13000	2.5	-								
	3.2	285	437	13000	2.8	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.12	**1.9**	520	738	9750	1.15	-		**FA**	**57R37**	**DR**	**63S4**	39	527
	2.1	455	646	10200	1.30	-	X	**FAF**	**57R37**	**DR**	**63S4**	45	527
	2.5	385	558	10600	1.55	-	X	**F**	**57R37**	**DR**	**63S4**	39	527
	2.7	345	506	10900	1.75	-		**FF**	**57R37**	**DR**	**63S4**	46	527
	3.0	295	452	11100	2.0	-							
	3.2	310	426	11100	1.95	-		**FA**	**57R37**	**DR**	**63S4**	38	527
	3.6	270	382	11300	2.2	-		**FAF**	**57R37**	**DR**	**63S4**	44	527
	4.2	230	330	11500	2.6	-		**F**	**57R37**	**DR**	**63S4**	39	527
	4.6	210	298	11500	2.8	-		**FF**	**57R37**	**DR**	**63S4**	45	527
	5.3	185	262	11500	3.2	-							
	2.5	385	543	6100	1.05	-		**FA**	**47R17**	**DR**	**63S4**	24	527
	2.9	330	475	6740	1.20	-	X	**FAF**	**47R17**	**DR**	**63S4**	26	527
	3.3	290	419	7150	1.40	-	X	**F**	**47R17**	**DR**	**63S4**	25	527
								FF	**47R17**	**DR**	**63S4**	28	527
	2.6	380	524	6190	1.05	-							
	2.8	350	489	6530	1.15	-							
	3.2	300	427	7020	1.30	-	X	**FA**	**47R17**	**DR**	**63S4**	23	527
	3.6	265	381	7310	1.50	-	X	**FAF**	**47R17**	**DR**	**63S4**	26	527
	4.1	235	334	7550	1.70	-		**F**	**47R17**	**DR**	**63S4**	24	527
	4.7	205	295	7740	1.95	-		**FF**	**47R17**	**DR**	**63S4**	27	527
	5.4	172	253	7910	2.3	-							
	5.0	192	278	4400	1.05	-		**FA**	**37R17**	**DR**	**63S4**	19	527
	5.7	162	242	4750	1.25	-	X	**FAF**	**37R17**	**DR**	**63S4**	20	527
	6.2	156	221	4820	1.30	-		**F**	**37R17**	**DR**	**63S4**	19	527
								FF	**37R17**	**DR**	**63S4**	21	527
	5.5	177	250	4590	1.15	-		**FA**	**37R17**	**DR**	**63S4**	19	527
	6.3	156	219	4820	1.30	-		**FAF**	**37R17**	**DR**	**63S4**	20	527
	7.4	132	186	5040	1.50	-		**F**	**37R17**	**DR**	**63S4**	19	527
	8.3	118	167	5140	1.70	-		**FF**	**37R17**	**DR**	**63S4**	21	527
	8.0	119	172	4500	1.10	-	X	**FA**	**27R17**	**DR**	**63S4**	13	527
	9.0	104	153	4500	1.25	-	X	**FAF**	**27R17**	**DR**	**63S4**	14	527
	11	87	130	4500	1.50	-	X	**F**	**27R17**	**DR**	**63S4**	13	527
								FF	**27R17**	**DR**	**63S4**	14	527
	7.4	131	186	4500	1.00	-	X						
	9.7	102	142	4500	1.25	-	X	**FA**	**27R17**	**DR**	**63S4**	13	527
	11	88	124	4500	1.45	-	X	**FAF**	**27R17**	**DR**	**63S4**	13	527
	13	77	109	4500	1.70	-	X	**F**	**27R17**	**DR**	**63S4**	13	527
	14	67	96	4500	1.95	-	X	**FF**	**27R17**	**DR**	**63S4**	14	527
	6.0	190	228.99	13000	4.3	-							
	7.1	162	195.39	13000	5.1	-		**FA**	**67**	**DR**	**63S4**	32	494
	8.1	142	170.85	13000	5.8	-		**FAF**	**67**	**DR**	**63S4**	38	493
	8.5	135	162.31	13000	6.1	-		**F**	**67**	**DR**	**63S4**	35	492
	9.7	118	142.40	13000	6.9	-		**FF**	**67**	**DR**	**63S4**	41	493
	6.9	166	199.70	11500	3.6	-							
	7.5	152	183.60	11500	3.9	-		**FA**	**57**	**DR**	**63S4**	28	489
	8.8	130	157.09	11500	4.6	-		**FAF**	**57**	**DR**	**63S4**	34	488
	10	113	136.16	11500	5.3	-		**F**	**57**	**DR**	**63S4**	28	487
	11	106	127.27	11500	5.7	-		**FF**	**57**	**DR**	**63S4**	35	488
	7.2	158	190.76	7970	2.5	-							
	7.9	146	175.38	8020	2.8	-							
	9.2	125	150.06	8100	3.2	-		**FA**	**47**	**DR**	**63S4**	21	484
	11	108	130.07	8150	3.7	-		**FAF**	**47**	**DR**	**63S4**	24	483
	11	101	121.57	8170	4.0	-		**F**	**47**	**DR**	**63S4**	22	482
	13	87	105.09	8200	4.6	-		**FF**	**47**	**DR**	**63S4**	25	483
	15	74	89.29	8230	5.4	-							
	17	66	79.72	8240	6.0	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.12	**11**	107	128.51	5220	1.85	-							
	12	98	117.88	5270	2.0	-		**FA**	**37**	**DR**	**63S4**	16	479
	14	83	100.36	5340	2.4	-		**FAF**	**37**	**DR**	**63S4**	18	478
	16	72	86.53	5400	2.8	-		**F**	**37**	**DR**	**63S4**	16	477
	17	67	80.65	5410	3.0	-		**FF**	**37**	**DR**	**63S4**	18	478
	9.8	117	140.74	4500	1.10	-	X						
	11	107	129.09	4500	1.20	-	X						
	13	91	109.90	4500	1.40	-	X						
	15	79	94.76	4500	1.65	-	X						
	16	73	88.32	4500	1.75	-	X						
	18	64	77.21	4500	2.0	-	X	**FA**	**27**	**DR**	**63S4**	9.9	475
	19	60	72.37	4500	2.2	-	X	**FAF**	**27**	**DR**	**63S4**	11	474
	22	53	63.86	4500	2.4	-	X	**F**	**27**	**DR**	**63S4**	10	473
	24	47	56.62	4500	2.8	-	X	**FF**	**27**	**DR**	**63S4**	11	474
	28	42	50.19	4500	3.1	-	X						
	30	39	46.78	4500	3.4	-	X						
	34	34	40.89	4500	3.8	-	X						
	36	32	38.33	4430	4.1	-	X						
	41	28	33.83	4270	4.6	-	X						
	47	24	29.56	4100	5.3	-	X						
	51	23	27.18	4000	5.8	-	X						
	59	19	23.25	3820	6.7	-	X						
	68	17	20.15	3650	7.8	-	X						
	73	16	18.84	3580	8.3	-	X						
	85	14	16.28	3420	9.6	-	X						
	100	12	13.84	3250	11	-	X	**FA**	**27**	**DR**	**63S4**	9.6	475
	112	10	12.35	3140	12	-	X	**FAF**	**27**	**DR**	**63S4**	10	474
	131	8.8	10.55	2990	14	-	X	**F**	**27**	**DR**	**63S4**	10	473
	140	8.2	9.88	2920	15	-	X	**FF**	**27**	**DR**	**63S4**	11	474
	147	7.8	9.40	2870	13	-	X						
	170	6.7	8.13	2740	15	-	X						
	200	5.7	6.91	2600	16	-	X						
	224	5.1	6.17	2510	18	-	X						
	262	4.4	5.27	2390	20	-	X						
	280	4.1	4.93	2340	20	-	X						
	332	3.5	4.16	2210	23	-	X						
0.18	**0.13**	10700	10191	90000	1.10	-		**FA**	**127R77**	**DR**	**63M4**	425	527
	0.15	8940	8831	90000	1.35	-	X	**FAF**	**127R77**	**DR**	**63M4**	465	527
	0.17	7740	7643	90000	1.55	-	X	**F**	**127R77**	**DR**	**63M4**	460	527
	0.20	7130	6715	90000	1.70	-		**FF**	**127R77**	**DR**	**63M4**	510	527
	0.20	7070	6767	51400	1.10	-							
	0.22	6080	5954	53800	1.25	-	X	**FA**	**107R77**	**DR**	**63M4**	275	527
	0.25	5290	5223	55700	1.45	-	X	**FAF**	**107R77**	**DR**	**63M4**	295	527
	0.29	4850	4567	56600	1.60	-	X	**F**	**107R77**	**DR**	**63M4**	290	527
	0.37	3670	3521	59100	2.1	-		**FF**	**107R77**	**DR**	**63M4**	320	527
	0.43	3250	3037	59900	2.4	-		**FA**	**107R77**	**DR**	**63M4**	275	527
	0.48	2950	2756	60500	2.6	-		**FAF**	**107R77**	**DR**	**63M4**	295	527
	0.56	2540	2369	61200	3.0	-		**F**	**107R77**	**DR**	**63M4**	290	527
	0.64	2210	2068	61800	3.5	-		**FF**	**107R77**	**DR**	**63M4**	315	527
	0.39	3800	3352	31300	1.15	-							
	0.45	3210	2907	32800	1.35	-							
	0.52	2890	2553	33600	1.50	-							
	0.59	2540	2245	34300	1.70	-		**FA**	**97R57**	**DR**	**63M4**	180	527
	0.67	2210	1970	35000	1.95	-		**FAF**	**97R57**	**DR**	**63M4**	205	527
	0.77	1950	1722	35500	2.2	-		**F**	**97R57**	**DR**	**63M4**	190	527
	0.86	1730	1527	35900	2.5	-		**FF**	**97R57**	**DR**	**63M4**	225	527
	0.99	1420	1327	36400	3.0	-							
	1.1	1330	1171	36500	3.2	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.18	**0.51**	2920	2576	22300	1.00	-								
	0.60	2490	2199	24800	1.20	-	X							
	0.68	2160	1930	25900	1.40	-								
	0.77	1930	1709	26600	1.55	-		**FA**	**87R57**	**DR**	**63M4**		115	527
	0.88	1690	1493	27300	1.75	-		**FAF**	**87R57**	**DR**	**63M4**		130	527
	1.0	1390	1300	28100	2.1	-		**F**	**87R57**	**DR**	**63M4**		125	527
	1.2	1250	1148	28400	2.4	-		**FF**	**87R57**	**DR**	**63M4**		140	527
	1.3	1080	1010	28800	2.8	-								
	1.5	970	887	29000	3.1	-								
	1.7	830	780	29300	3.6	-								
	1.1	1380	1200	16500	1.10	-								
	1.2	1210	1053	17400	1.25	-		**FA**	**77R37**	**DR**	**63M4**		65	527
	1.4	1030	910	18200	1.45	-		**FAF**	**77R37**	**DR**	**63M4**		72	527
	1.6	880	810	18700	1.70	-		**F**	**77R37**	**DR**	**63M4**		69	527
	1.9	780	710	19000	1.90	-		**FF**	**77R37**	**DR**	**63M4**		80	527
	2.2	690	615	19300	2.2	-								
	2.1	700	641	11200	1.15	-	X							
	2.3	645	572	11600	1.25	-	X	**FA**	**67R37**	**DR**	**63M4**		43	527
	2.6	555	509	12100	1.45	-	X	**FAF**	**67R37**	**DR**	**63M4**		49	527
	3.0	480	437	12500	1.70	-		**F**	**67R37**	**DR**	**63M4**		46	527
	3.4	430	384	12700	1.90	-		**FF**	**67R37**	**DR**	**63M4**		52	527
	2.6	575	500	12000	1.40	-	X							
	2.9	525	454	12300	1.55	-								
	3.4	450	392	12600	1.80	-		**FA**	**67R37**	**DR**	**63M4**		42	527
	4.0	380	333	12900	2.2	-		**FAF**	**67R37**	**DR**	**63M4**		48	527
	4.4	335	297	13000	2.4	-		**F**	**67R37**	**DR**	**63M4**		45	527
	5.1	295	261	13000	2.8	-		**FF**	**67R37**	**DR**	**63M4**		51	527
	5.6	260	238	13000	3.1	-								
	6.6	215	200	13000	3.7	-								
	2.6	570	506	9420	1.05	-		**FA**	**57R37**	**DR**	**63M4**		39	527
	2.9	495	452	9930	1.20	-		**FAF**	**57R37**	**DR**	**63M4**		45	527
	3.4	425	386	10400	1.40	-		**F**	**57R37**	**DR**	**63M4**		39	527
	3.9	370	338	10700	1.60	-		**FF**	**57R37**	**DR**	**63M4**		46	527
	3.1	500	426	9910	1.20	-								
	3.5	445	382	10300	1.35	-								
	4.0	380	330	10700	1.55	-		**FA**	**57R37**	**DR**	**63M4**		38	527
	4.4	340	298	10900	1.75	-		**FAF**	**57R37**	**DR**	**63M4**		44	527
	5.0	300	262	11100	2.00	-		**F**	**57R37**	**DR**	**63M4**		39	527
	5.8	255	226	11400	2.3	-		**FF**	**57R37**	**DR**	**63M4**		45	527
	6.6	220	200	11500	2.7	-								
	4.1	375	324	6250	1.05	-		**FA**	**47R17**	**DR**	**63M4**		24	527
	4.6	325	288	6810	1.20	-		**FAF**	**47R17**	**DR**	**63M4**		26	527
	5.3	275	249	7250	1.45	-		**F**	**47R17**	**DR**	**63M4**		25	527
								FF	**47R17**	**DR**	**63M4**		28	527
	4.0	385	334	6100	1.05	-								
	4.5	335	295	6680	1.20	-		**FA**	**47R17**	**DR**	**63M4**		23	527
	5.2	285	253	7190	1.40	-		**FAF**	**47R17**	**DR**	**63M4**		26	527
	6.1	250	217	7430	1.55	-		**F**	**47R17**	**DR**	**63M4**		24	527
	7.0	220	190	7650	1.75	-		**FF**	**47R17**	**DR**	**63M4**		27	527
	7.4	205	178	7740	1.85	-								
	7.9	194	167	4380	1.05	-		**FA**	**37R17**	**DR**	**63M4**		19	527
	9.1	171	145	4660	1.15	-		**FAF**	**37R17**	**DR**	**63M4**		20	527
	10	151	129	4870	1.30	-		**F**	**37R17**	**DR**	**63M4**		19	527
								FF	**37R17**	**DR**	**63M4**		21	527
	12	126	109	4500	1.05	-	X	**FA**	**27R17**	**DR**	**63M4**		13	527
	14	110	96	4500	1.20	-	X	**FAF**	**27R17**	**DR**	**63M4**		13	527
								F	**27R17**	**DR**	**63M4**		13	527
								FF	**27R17**	**DR**	**63M4**		14	527

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.18	**4.7**	365	281.71	19900	4.1	-		**FA**	**77**	**DR**	**63M4**		56	499
	5.0	340	262.93	19900	4.4	-		**FAF**	**77**	**DR**	**63M4**		62	498
	5.8	290	225.79	20000	5.1	-		**F**	**77**	**DR**	**63M4**		60	497
								FF	**77**	**DR**	**63M4**		70	498
	5.8	295	228.99	13000	2.8	-		**FA**	**67**	**DR**	**63M4**		32	494
	6.8	250	195.39	13000	3.2	-		**FAF**	**67**	**DR**	**63M4**		38	493
	7.7	220	170.85	13000	3.7	-		**F**	**67**	**DR**	**63M4**		35	492
								FF	**67**	**DR**	**63M4**		41	493
	6.6	260	199.70	11300	2.3	-								
	7.2	235	183.60	11500	2.5	-		**FA**	**57**	**DR**	**63M4**		28	489
	8.4	200	157.09	11500	2.9	-		**FAF**	**57**	**DR**	**63M4**		34	488
	9.7	177	136.16	11500	3.4	-		**F**	**57**	**DR**	**63M4**		28	487
	10	166	127.27	11500	3.6	-		**FF**	**57**	**DR**	**63M4**		35	488
	12	143	110.01	11500	4.2	-								
	6.9	245	190.76	7470	1.60	-								
	7.5	225	175.38	7600	1.75	-		**FA**	**47**	**DR**	**63M4**		21	484
	8.8	195	150.06	7800	2.0	-		**FAF**	**47**	**DR**	**63M4**		24	483
	10	169	130.07	7920	2.4	-		**F**	**47**	**DR**	**63M4**		22	482
	11	158	121.57	7970	2.5	-		**FF**	**47**	**DR**	**63M4**		25	483
	10	167	128.51	4700	1.20	-								
	11	154	117.88	4840	1.30	-								
	13	131	100.36	5040	1.55	-		**FA**	**37**	**DR**	**63M4**		16	479
	15	113	86.53	5180	1.75	-		**FAF**	**37**	**DR**	**63M4**		18	478
	16	105	80.65	5230	1.90	-		**F**	**37**	**DR**	**63M4**		16	477
	19	92	70.50	5300	2.2	-		**FF**	**37**	**DR**	**63M4**		18	478
	20	86	66.09	5330	2.3	-								
	23	76	58.32	5380	2.6	-								
	14	123	94.76	4500	1.05	-	X							
	15	115	88.32	4500	1.15	-	X							
	17	100	77.21	4500	1.30	-	X							
	18	94	72.37	4500	1.40	-	X							
	21	83	63.86	4500	1.55	-	X	**FA**	**27**	**DR**	**63M4**		9.9	475
	23	74	56.62	4500	1.75	-	X	**FAF**	**27**	**DR**	**63M4**		11	474
	26	65	50.19	4500	2.00	-	X	**F**	**27**	**DR**	**63M4**		10	473
	28	61	46.78	4500	2.1	-	X	**FF**	**27**	**DR**	**63M4**		11	474
	32	53	40.89	4410	2.4	-	X							
	34	50	38.33	4340	2.6	-	X							
	39	44	33.83	4200	3.0	-	X							
	45	38	29.56	4040	3.4	-	X							
	49	35	27.18	3950	3.7	-	X							
	57	30	23.25	3780	4.3	-	X							
	65	26	20.15	3630	5.0	-	X							
	70	24	18.84	3560	5.3	-	X							
	81	21	16.28	3410	6.1	-	X							
	95	18	13.84	3240	7.2	-	X							
	107	16	12.35	3140	7.8	-	X	**FA**	**27**	**DR**	**63M4**		9.6	475
	125	14	10.55	2990	9.0	-	X	**FAF**	**27**	**DR**	**63M4**		10	474
	134	13	9.88	2930	9.5	-	X	**F**	**27**	**DR**	**63M4**		10	473
	140	12	9.40	2870	8.6	-	X	**FF**	**27**	**DR**	**63M4**		11	474
	162	11	8.13	2750	9.3	-	X							
	191	9.0	6.91	2610	10	-	X							
	214	8.0	6.17	2520	11	-	X							
	251	6.9	5.27	2400	12	-	X							
	268	6.4	4.93	2350	13	-	X							
	318	5.4	4.16	2230	15	-	X							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.25	**0.18**	10500	7643	90000	1.15	-		**FA**	**127R77**	**EDRS**	**71S4**	430	527
	0.21	9610	6715	90000	1.25	-		**FAF**	**127R77**	**EDRS**	**71S4**	465	527
	0.24	8480	5925	90000	1.40	-		**F**	**127R77**	**EDRS**	**71S4**	465	527
	0.27	7270	5153	90000	1.65	-		**FF**	**127R77**	**EDRS**	**71S4**	510	527
	0.31	6290	4533	90000	1.90	-							
	0.27	7200	5223	51100	1.05	-		**FA**	**107R77**	**EDRS**	**71S4**	275	527
	0.31	6530	4567	52700	1.15	-	X	**FAF**	**107R77**	**EDRS**	**71S4**	300	527
	0.40	4970	3521	56400	1.55	-		**F**	**107R77**	**EDRS**	**71S4**	295	527
								FF	**107R77**	**EDRS**	**71S4**	320	527
	0.46	4380	3037	57600	1.75	-							
	0.51	3980	2756	58500	1.95	-		**FA**	**107R77**	**EDRS**	**71S4**	275	527
	0.59	3420	2369	59600	2.2	-		**FAF**	**107R77**	**EDRS**	**71S4**	295	527
	0.68	2980	2068	60400	2.6	-		**F**	**107R77**	**EDRS**	**71S4**	295	527
	0.88	2280	1597	61700	3.4	-		**FF**	**107R77**	**EDRS**	**71S4**	320	527
	1.0	1970	1401	62200	3.9	-							
	0.48	4290	2907	29900	1.00	-							
	0.55	3840	2553	31200	1.10	-							
	0.63	3380	2245	32400	1.25	-							
	0.71	2940	1970	33400	1.45	-		**FA**	**97R57**	**EDRS**	**71S4**	185	527
	0.82	2600	1722	34200	1.65	-		**FAF**	**97R57**	**EDRS**	**71S4**	210	527
	0.92	2300	1527	34800	1.85	-		**F**	**97R57**	**EDRS**	**71S4**	195	527
	1.1	1920	1327	35500	2.2	-		**FF**	**97R57**	**EDRS**	**71S4**	225	527
	1.2	1760	1171	35800	2.4	-							
	1.4	1540	1022	36200	2.8	-							
	0.73	2880	1930	23400	1.05	-							
	0.82	2570	1709	24500	1.15	-							
	0.94	2250	1493	25600	1.35	-							
	1.1	1880	1300	26800	1.60	-		**FA**	**87R57**	**EDRS**	**71S4**	120	527
	1.2	1680	1148	27300	1.80	-		**FAF**	**87R57**	**EDRS**	**71S4**	135	527
	1.4	1460	1010	27900	2.0	-		**F**	**87R57**	**EDRS**	**71S4**	125	527
	1.6	1300	887	28300	2.3	-		**FF**	**87R57**	**EDRS**	**71S4**	140	527
	1.8	1120	780	28700	2.7	-							
	2.1	950	674	29100	3.1	-							
	1.5	1370	910	16500	1.10	-							
	1.7	1190	810	17500	1.25	-							
	2.0	1040	710	18100	1.45	-		**FA**	**77R37**	**EDRS**	**71S4**	68	527
	2.3	920	615	18600	1.65	-		**FAF**	**77R37**	**EDRS**	**71S4**	74	527
	2.6	800	538	19000	1.85	-		**F**	**77R37**	**EDRS**	**71S4**	72	527
	2.9	715	480	19200	2.1	-		**FF**	**77R37**	**EDRS**	**71S4**	82	527
	3.4	605	413	19500	2.5	-							
	2.8	745	509	10900	1.10	-		**FA**	**67R37**	**EDRS**	**71S4**	46	527
	3.2	640	437	11600	1.25	-		**FAF**	**67R37**	**EDRS**	**71S4**	52	527
								F	**67R37**	**EDRS**	**71S4**	48	527
								FF	**67R37**	**EDRS**	**71S4**	55	527
	2.8	765	500	10800	1.05	-							
	3.1	695	454	11300	1.15	-							
	3.6	600	392	11900	1.35	-		**FA**	**67R37**	**EDRS**	**71S4**	44	527
	4.2	505	333	12400	1.60	-		**FAF**	**67R37**	**EDRS**	**71S4**	51	527
	4.7	445	297	12600	1.85	-		**F**	**67R37**	**EDRS**	**71S4**	47	527
	5.4	390	261	12800	2.1	-		**FF**	**67R37**	**EDRS**	**71S4**	53	527
	5.9	350	238	13000	2.3	-							
	3.6	570	386	9420	1.05	-		**FA**	**57R37**	**EDRS**	**71S4**	42	527
	4.2	495	338	9950	1.20	-		**FAF**	**57R37**	**EDRS**	**71S4**	47	527
	5.5	375	255	10700	1.60	-		**F**	**57R37**	**EDRS**	**71S4**	42	527
								FF	**57R37**	**EDRS**	**71S4**	48	527

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.25	**3.7**	585	382	9280	1.00	-							
	4.2	505	330	9880	1.20	-							
	4.7	455	298	10200	1.30	-	**FA**	**57R37**	**EDRS**	**71S4**	41	527
	5.4	400	262	10600	1.50	-	**FAF**	**57R37**	**EDRS**	**71S4**	47	527
	6.2	340	226	10900	1.75	-	**F**	**57R37**	**EDRS**	**71S4**	41	527
	7.0	295	200	11100	2.0	-	**FF**	**57R37**	**EDRS**	**71S4**	48	527
	8.3	250	170	11400	2.4	-						
	5.6	370	249	6310	1.10	-	**FA**	**47R17**	**EDRS**	**71S4**	26	527
	6.4	325	218	6780	1.20	-	**FAF**	**47R17**	**EDRS**	**71S4**	29	527
	7.3	290	193	7150	1.40	-	**F**	**47R17**	**EDRS**	**71S4**	27	527
	8.1	260	175	7360	1.50	-	**FF**	**47R17**	**EDRS**	**71S4**	30	527
	5.6	380	253	6180	1.05	-						
	6.5	335	217	6710	1.20	-	**FA**	**47R17**	**EDRS**	**71S4**	26	527
	7.4	290	190	7130	1.35	-	**FAF**	**47R17**	**EDRS**	**71S4**	28	527
	7.9	270	178	7280	1.40	-	**F**	**47R17**	**EDRS**	**71S4**	26	527
	9.4	225	149	7610	1.60	-	**FF**	**47R17**	**EDRS**	**71S4**	30	527
	11	200	131	7770	1.80	-						
	11	200	129	4300	1.00	-	**FA**	**37R17**	**EDRS**	**71S4**	21	527
	12	182	118	4530	1.10	-	**FAF**	**37R17**	**EDRS**	**71S4**	23	527
	14	151	98	4870	1.35	-	**F**	**37R17**	**EDRS**	**71S4**	22	527
	16	132	87	5030	1.50	-	**FF**	**37R17**	**EDRS**	**71S4**	24	527
	5.0	475	281.71	19700	3.1	-						
	5.3	445	262.93	19800	3.4	-	**FA**	**77**	**EDRS**	**71S4**	58	499
	6.2	380	225.79	19900	3.9	-	**FAF**	**77**	**EDRS**	**71S4**	65	498
	7.1	335	198.31	19900	4.4	-	**F**	**77**	**EDRS**	**71S4**	62	497
	7.5	320	188.40	20000	4.7	-	**FF**	**77**	**EDRS**	**71S4**	73	498
	6.1	385	228.99	12900	2.1	-						
	7.2	330	195.39	13000	2.5	-	**FA**	**67**	**EDRS**	**71S4**	36	494
	8.2	290	170.85	13000	2.8	-	**FAF**	**67**	**EDRS**	**71S4**	42	493
	8.7	275	162.31	13000	3.0	-	**F**	**67**	**EDRS**	**71S4**	39	492
	9.9	240	142.40	13000	3.4	-	**FF**	**67**	**EDRS**	**71S4**	45	493
	7.0	335	199.70	10900	1.75	-						
	7.6	310	183.60	11100	1.90	-	**FA**	**57**	**EDRS**	**71S4**	32	489
	8.9	265	157.09	11300	2.2	-	**FAF**	**57**	**EDRS**	**71S4**	37	488
	10	230	136.16	11500	2.6	-	**F**	**57**	**EDRS**	**71S4**	32	487
	11	215	127.27	11500	2.8	-	**FF**	**57**	**EDRS**	**71S4**	39	488
	13	187	110.01	11500	3.2	-						
	7.4	320	190.76	6830	1.25	-						
	8.0	295	175.38	7080	1.35	-						
	9.4	255	150.06	7420	1.55	-	**FA**	**47**	**EDRS**	**71S4**	24	484
	11	220	130.07	7650	1.80	-	**FAF**	**47**	**EDRS**	**71S4**	26	483
	12	205	121.57	7740	1.95	-	**F**	**47**	**EDRS**	**71S4**	24	482
	13	179	105.09	7880	2.2	-	**FF**	**47**	**EDRS**	**71S4**	27	483
	16	152	89.29	8000	2.6	-						
	12	200	117.88	4290	1.00	-						
	14	170	100.36	4670	1.15	-						
	16	147	86.53	4910	1.35	-						
	17	137	80.65	4990	1.45	-						
	20	120	70.50	5130	1.65	-						
	21	112	66.09	5180	1.80	-	**FA**	**37**	**EDRS**	**71S4**	19	479
	24	99	58.32	5260	2.0	-	**FAF**	**37**	**EDRS**	**71S4**	20	478
	26	93	54.54	5300	2.2	-	**F**	**37**	**EDRS**	**71S4**	19	477
	27	88	51.70	5320	2.3	-	**FF**	**37**	**EDRS**	**71S4**	21	478
	30	80	47.02	5360	2.5	-						
	32	74	43.83	5380	2.7	-						
	37	65	38.31	5420	3.1	-						
	39	61	35.91	5440	3.2	-						
	44	54	31.69	5460	3.6	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.25	**19**	123	72.37	4500	1.05	-	X						
	22	108	63.86	4500	1.20	-	X						
	25	96	56.62	4480	1.35	-	X	**FA**	**27**	**EDRS**	**71S4**	13	475
	28	85	50.19	4370	1.50	-	X	**FAF**	**27**	**EDRS**	**71S4**	13	474
	30	80	46.78	4300	1.65	-	X	**F**	**27**	**EDRS**	**71S4**	13	473
	34	70	40.89	4170	1.85	-	X	**FF**	**27**	**EDRS**	**71S4**	14	474
	37	65	38.33	4100	2.0	-	X						
	42	58	33.83	3980	2.3	-	X						
	48	50	29.56	3850	2.6	-	X						
	52	46	27.18	3760	2.8	-	X						
	60	40	23.25	3610	3.3	-	X						
	70	34	20.15	3480	3.8	-	X						
	75	32	18.84	3410	4.1	-	X						
	86	28	16.28	3270	4.7	-	X						
	102	24	13.84	3120	5.5	-	X						
	114	21	12.35	3020	6.0	-	X	**FA**	**27**	**EDRS**	**71S4**	12	475
	133	18	10.55	2890	6.9	-	X	**FAF**	**27**	**EDRS**	**71S4**	13	474
	142	17	9.88	2830	7.3	-	X	**F**	**27**	**EDRS**	**71S4**	13	473
	149	16	9.40	2770	6.6	-	X	**FF**	**27**	**EDRS**	**71S4**	14	474
	173	14	8.13	2660	7.2	-	X						
	203	12	6.91	2530	8.0	-	X						
	228	10	6.17	2440	8.6	-	X						
	267	9.0	5.27	2330	9.6	-	X						
	285	8.4	4.93	2280	10	-	X						
	338	7.1	4.16	2160	11	-	X						
0.37	**0.27**	11400	5153	90000	1.05	-							
	0.30	9970	4533	90000	1.20	-		**FA**	**127R77**	**EDRS**	**71M4**	430	527
	0.35	8720	3926	90000	1.40	-		**FAF**	**127R77**	**EDRS**	**71M4**	470	527
	0.40	7600	3454	90000	1.60	-		**F**	**127R77**	**EDRS**	**71M4**	465	527
	0.45	6640	3031	90000	1.80	-		**FF**	**127R77**	**EDRS**	**71M4**	510	527
	0.45	6870	3037	51900	1.10	-							
	0.50	6240	2756	53500	1.25	-		**FA**	**107R77**	**EDRS**	**71M4**	280	527
	0.58	5360	2369	55500	1.45	-		**FAF**	**107R77**	**EDRS**	**71M4**	300	527
	0.66	4680	2068	57000	1.65	-		**F**	**107R77**	**EDRS**	**71M4**	295	527
	0.86	3590	1597	59200	2.1	-		**FF**	**107R77**	**EDRS**	**71M4**	320	527
	0.80	4010	1722	30700	1.05	-							
	0.90	3550	1527	32000	1.20	-		**FA**	**97R57**	**EDRS**	**71M4**	190	527
	1.0	3010	1327	33300	1.45	-		**FAF**	**97R57**	**EDRS**	**71M4**	210	527
	1.2	2720	1171	33900	1.60	-		**F**	**97R57**	**EDRS**	**71M4**	195	527
	1.3	2380	1022	34700	1.80	-		**FF**	**97R57**	**EDRS**	**71M4**	230	527
	1.5	2010	898	35400	2.1	-							
	1.1	2940	1300	21600	1.00	-							
	1.2	2620	1148	24400	1.15	-							
	1.4	2290	1010	25500	1.30	-							
	1.6	2020	887	26400	1.50	-		**FA**	**87R57**	**EDRS**	**71M4**	125	527
	1.8	1760	780	27100	1.70	-		**FAF**	**87R57**	**EDRS**	**71M4**	135	527
	2.0	1510	674	27800	2.00	-		**F**	**87R57**	**EDRS**	**71M4**	130	527
	2.3	1380	609	28100	2.2	-		**FF**	**87R57**	**EDRS**	**71M4**	145	527
	2.7	1160	515	28600	2.6	-							
	3.0	1020	452	28900	2.9	-							
	2.2	1420	615	16200	1.05	-							
	2.6	1240	538	17200	1.20	-		**FA**	**77R37**	**EDRS**	**71M4**	69	527
	2.9	1110	480	17900	1.35	-		**FAF**	**77R37**	**EDRS**	**71M4**	76	527
	3.3	940	413	18500	1.60	-		**F**	**77R37**	**EDRS**	**71M4**	73	527
	3.8	840	367	18800	1.75	-		**FF**	**77R37**	**EDRS**	**71M4**	83	527
	4.3	750	323	19100	2.00	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.37	**4.1**	790	338	10600	1.05	-		**FA**	**67R37**	**EDRS**	**71M4**	47	527
	4.5	705	305	11200	1.15	-		**FAF**	**67R37**	**EDRS**	**71M4**	53	527
	5.4	590	257	11900	1.40	-		**F**	**67R37**	**EDRS**	**71M4**	50	527
	6.0	520	231	12300	1.55	-		**FF**	**67R37**	**EDRS**	**71M4**	56	527
	5.4	585	255	9310	1.05	-		**FA**	**57R37**	**EDRS**	**71M4**	43	527
	6.8	455	201	10200	1.30	-		**FAF**	**57R37**	**EDRS**	**71M4**	48	527
	7.6	410	181	10500	1.45	-		**F**	**57R37**	**EDRS**	**71M4**	43	527
								FF	**57R37**	**EDRS**	**71M4**	50	527
	6.1	525	226	9720	1.15	-							
	6.9	460	200	10200	1.30	-		**FA**	**57R37**	**EDRS**	**71M4**	42	527
	8.1	395	170	10600	1.50	-		**FAF**	**57R37**	**EDRS**	**71M4**	48	527
	9.0	350	152	10900	1.70	-		**F**	**57R37**	**EDRS**	**71M4**	42	527
	10	305	134	11100	1.95	-		**FF**	**57R37**	**EDRS**	**71M4**	49	527
	9.4	340	147	6640	1.15	-		**FA**	**47R17**	**EDRS**	**71M4**	28	527
	11	300	130	7040	1.30	-		**FAF**	**47R17**	**EDRS**	**71M4**	30	527
								F	**47R17**	**EDRS**	**71M4**	28	527
								FF	**47R17**	**EDRS**	**71M4**	32	527
	5.1	695	270.68	29600	4.3	-		**FA**	**87**	**EDRS**	**71M4**	100	504
	5.4	655	255.37	29600	4.6	-		**FAF**	**87**	**EDRS**	**71M4**	115	503
	6.0	585	228.93	29800	5.1	-		**F**	**87**	**EDRS**	**71M4**	105	502
								FF	**87**	**EDRS**	**71M4**	120	503
	4.9	720	281.71	19200	2.1	-							
	5.2	675	262.93	19300	2.2	-							
	6.1	580	225.79	19500	2.6	-		**FA**	**77**	**EDRS**	**71M4**	61	499
	6.9	505	198.31	19700	2.9	-		**FAF**	**77**	**EDRS**	**71M4**	68	498
	7.3	480	188.40	19700	3.1	-		**F**	**77**	**EDRS**	**71M4**	65	497
	8.3	425	166.47	19800	3.5	-		**FF**	**77**	**EDRS**	**71M4**	75	498
	9.7	365	142.27	19900	4.1	-							
	6.0	585	228.99	12000	1.40	-							
	7.0	500	195.39	12400	1.65	-		**FA**	**67**	**EDRS**	**71M4**	38	494
	8.0	435	170.85	12700	1.85	-		**FAF**	**67**	**EDRS**	**71M4**	45	493
	8.5	415	162.31	12800	1.95	-		**F**	**67**	**EDRS**	**71M4**	41	492
	9.7	365	142.40	12900	2.2	-		**FF**	**67**	**EDRS**	**71M4**	47	493
	11	310	120.79	13000	2.6	-							
	6.9	510	199.70	9830	1.15	-							
	7.5	470	183.60	10100	1.25	-							
	8.8	400	157.09	10500	1.50	-		**FA**	**57**	**EDRS**	**71M4**	34	489
	10	345	136.16	10900	1.70	-		**FAF**	**57**	**EDRS**	**71M4**	40	488
	11	325	127.27	11000	1.85	-		**F**	**57**	**EDRS**	**71M4**	35	487
	12	280	110.01	11200	2.1	-		**FF**	**57**	**EDRS**	**71M4**	41	488
	15	240	93.47	11400	2.5	-							
	16	210	83.46	11500	2.8	-							
	9.2	385	150.06	6120	1.05	-							
	11	330	130.07	6730	1.20	-							
	13	270	105.09	7310	1.50	-		**FA**	**47**	**EDRS**	**71M4**	25	484
	15	225	89.29	7600	1.75	-		**FAF**	**47**	**EDRS**	**71M4**	27	483
	17	200	79.72	7740	1.95	-		**F**	**47**	**EDRS**	**71M4**	25	482
	20	175	68.09	7900	2.3	-		**FF**	**47**	**EDRS**	**71M4**	29	483
	21	168	65.36	7930	2.4	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.37	**20**	181	70.50	4540	1.10	-							
	21	170	66.09	4680	1.20	-							
	24	150	58.32	4880	1.35	-							
	25	140	54.54	4970	1.45	-							
	27	133	51.70	5030	1.50	-		**FA**	**37**	**EDRS**	**71M4**	20	479
	29	121	47.02	5120	1.65	-		**FAF**	**37**	**EDRS**	**71M4**	21	478
	31	113	43.83	5180	1.80	-		**F**	**37**	**EDRS**	**71M4**	20	477
	36	98	38.31	5260	2.0	-		**FF**	**37**	**EDRS**	**71M4**	22	478
	38	92	35.91	5300	2.2	-							
	43	81	31.69	5310	2.4	-							
	49	72	28.09	5150	2.6	-							
	58	61	23.88	4930	2.9	-							
	27	129	50.19	4020	1.00	-	X						
	29	120	46.78	3970	1.10	-	X	**FA**	**27**	**EDRS**	**71M4**	14	475
	34	105	40.89	3890	1.25	-	X	**FAF**	**27**	**EDRS**	**71M4**	14	474
	36	98	38.33	3840	1.30	-	X	**F**	**27**	**EDRS**	**71M4**	14	473
	41	87	33.83	3750	1.50	-	X	**FF**	**27**	**EDRS**	**71M4**	15	474
	47	76	29.56	3650	1.70	-	X						
	51	70	27.18	3580	1.85	-	X						
	59	60	23.25	3460	2.2	-	X						
	68	52	20.15	3350	2.5	-	X						
	73	48	18.84	3290	2.7	-	X						
	84	42	16.28	3170	3.1	-	X						
	99	36	13.84	3040	3.6	-	X						
	111	32	12.35	2950	4.0	-	X	**FA**	**27**	**EDRS**	**71M4**	13	475
	130	27	10.55	2830	4.5	-	X	**FAF**	**27**	**EDRS**	**71M4**	14	474
	139	25	9.88	2780	4.8	-	X	**F**	**27**	**EDRS**	**71M4**	14	473
	146	24	9.40	2710	4.3	-	X	**FF**	**27**	**EDRS**	**71M4**	15	474
	169	21	8.13	2610	4.7	-	X						
	199	18	6.91	2490	5.2	-	X						
	223	16	6.17	2410	5.7	-	X						
	261	14	5.27	2300	6.4	-	X						
	279	13	4.93	2260	6.6	-	X						
	331	11	4.16	2140	7.4	-	X						
0.55	**0.26**	16300	5404	104800	1.10	-		**FA**	**157R97**	**EDRS**	**80S4**	770	527
	0.51	8400	2780	119300	2.1	-		**FAF**	**157R97**	**EDRS**	**80S4**	830	527
								F	**157R97**	**EDRS**	**80S4**	790	527
								FF	**157R97**	**EDRS**	**80S4**	900	527
	0.58	7430	2427	120000	2.4	-		**FA**	**157R97**	**EDRS**	**80S4**	770	527
	0.85	5290	1674	120000	3.4	-		**FAF**	**157R97**	**EDRS**	**80S4**	820	527
	1.1	4070	1308	120000	4.4	-		**F**	**157R97**	**EDRS**	**80S4**	790	527
	1.2	3570	1169	120000	5.0	-		**FF**	**157R97**	**EDRS**	**80S4**	890	527
	0.41	11200	3454	90000	1.05	-		**FA**	**127R77**	**EDRS**	**80S4**	430	527
	0.47	9850	3031	90000	1.20	-		**FAF**	**127R77**	**EDRS**	**80S4**	470	527
								F	**127R77**	**EDRS**	**80S4**	470	527
								FF	**127R77**	**EDRS**	**80S4**	510	527
	0.68	6900	2068	51800	1.10	-							
	0.77	5930	1826	54200	1.30	-							
	0.89	5300	1597	55600	1.45	-							
	1.0	4620	1401	57100	1.65	-		**FA**	**107R77**	**EDRS**	**80S4**	280	527
	1.1	4030	1243	58400	1.90	-		**FAF**	**107R77**	**EDRS**	**80S4**	300	527
	1.3	3610	1087	59200	2.1	-		**F**	**107R77**	**EDRS**	**80S4**	295	527
	1.5	3080	950	60200	2.5	-		**FF**	**107R77**	**EDRS**	**80S4**	325	527
	1.7	2680	834	61000	2.9	-							
	2.2	2090	640	62000	3.7	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.55	**1.2**	3980	1171	30800	1.10	-							
	1.4	3480	1022	32200	1.25	-							
	1.6	2970	898	33400	1.45	-							
	1.8	2630	784	34100	1.65	-	**FA**	**97R57**	**EDRS**	**80S4**		190	527
	2.0	2280	690	34800	1.90	-	**FAF**	**97R57**	**EDRS**	**80S4**		210	527
	2.3	2010	605	35400	2.1	-	**F**	**97R57**	**EDRS**	**80S4**		195	527
	2.7	1750	529	35800	2.4	-	**FF**	**97R57**	**EDRS**	**80S4**		230	527
	3.0	1540	467	36200	2.8	-							
	3.5	1320	406	36500	3.2	-							
	3.9	1190	363	36800	3.6	-							
	1.6	2980	887	20500	1.00	-							
	1.8	2600	780	24400	1.15	-							
	2.1	2230	674	25700	1.35	-	**FA**	**87R57**	**EDRS**	**80S4**		125	527
	2.3	2030	609	26300	1.45	-	**FAF**	**87R57**	**EDRS**	**80S4**		135	527
	2.8	1710	515	27200	1.75	-	**F**	**87R57**	**EDRS**	**80S4**		130	527
	3.1	1510	452	27800	2.00	-	**FF**	**87R57**	**EDRS**	**80S4**		145	527
	4.1	1130	345	28700	2.6	-							
	3.4	1380	413	16400	1.10	-	**FA**	**77R37**	**EDRS**	**80S4**		72	527
	3.9	1240	367	17200	1.20	-	**FAF**	**77R37**	**EDRS**	**80S4**		78	527
	4.4	1090	323	17900	1.35	-	**F**	**77R37**	**EDRS**	**80S4**		76	527
							FF	**77R37**	**EDRS**	**80S4**		86	527
	6.1	770	231	10700	1.05	-	**FA**	**67R37**	**EDRS**	**80S4**		50	527
	6.9	690	205	11300	1.20	-	**FAF**	**67R37**	**EDRS**	**80S4**		56	527
	8.1	585	175	12000	1.40	-	**F**	**67R37**	**EDRS**	**80S4**		52	527
							FF	**67R37**	**EDRS**	**80S4**		59	527
	5.2	1000	270.68	29000	3.0	-							
	5.5	940	255.37	29100	3.2	-	**FA**	**87**	**EDRS**	**80S4**		100	504
	6.2	840	228.93	29300	3.5	-	**FAF**	**87**	**EDRS**	**80S4**		115	503
	7.2	730	197.20	29500	4.1	-	**F**	**87**	**EDRS**	**80S4**		105	502
	7.9	665	179.97	29600	4.5	-	**FF**	**87**	**EDRS**	**80S4**		120	503
	6.3	830	225.79	18900	1.80	-							
	7.1	735	198.31	19200	2.0	-							
	7.5	695	188.40	19300	2.2	-							
	8.5	615	166.47	19500	2.4	-	**FA**	**77**	**EDRS**	**80S4**		62	499
	10.0	525	142.27	19600	2.8	-	**FAF**	**77**	**EDRS**	**80S4**		68	498
	11	480	130.42	19700	3.1	-	**F**	**77**	**EDRS**	**80S4**		66	497
	12	420	114.45	19800	3.5	-	**FF**	**77**	**EDRS**	**80S4**		76	498
	13	400	108.46*	19900	3.7	-							
	15	350	94.93	19900	4.3	-							
	7.2	725	195.39	11100	1.15	-							
	8.3	630	170.85	11700	1.30	-							
	8.7	600	162.31	11900	1.35	-							
	9.9	525	142.40	12300	1.55	-	**FA**	**67**	**EDRS**	**80S4**		39	494
	12	445	120.79	12600	1.85	-	**FAF**	**67**	**EDRS**	**80S4**		45	493
	13	400	109.04	12800	2.0	-	**F**	**67**	**EDRS**	**80S4**		42	492
	15	355	95.94	13000	2.3	-	**FF**	**67**	**EDRS**	**80S4**		48	493
	16	335	90.59	13000	2.4	-							
	18	295	79.76	13000	2.7	-							
	9.0	580	157.09	9330	1.05	-							
	10	505	136.16	9890	1.20	-							
	11	470	127.27	10100	1.25	-							
	13	405	110.01	10500	1.45	-	**FA**	**57**	**EDRS**	**80S4**		35	489
	15	345	93.47	10900	1.75	-	**FAF**	**57**	**EDRS**	**80S4**		41	488
	17	305	83.46	11100	1.95	-	**F**	**57**	**EDRS**	**80S4**		35	487
	19	270	72.98	11300	2.2	-	**FF**	**57**	**EDRS**	**80S4**		42	488
	21	250	68.22	11400	2.4	-							
	24	215	58.97	11500	2.7	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.55	**13**	390	105.09	6060	1.05	-	X						
	16	330	89.29	6760	1.20	-	X						
	18	295	79.72	7100	1.35	-	X	**FA**	**47**	**EDRS**	**80S4**	28	484
	21	250	68.09	7440	1.60	-	X	**FAF**	**47**	**EDRS**	**80S4**	30	483
	22	240	65.36	7510	1.65	-	X	**F**	**47**	**EDRS**	**80S4**	28	482
	25	205	56.49	7720	1.90	-	X	**FF**	**47**	**EDRS**	**80S4**	31	483
	29	178	48.00*	7880	2.2	-	X						
	33	159	42.86	7970	2.5	-	X						
	27	192	51.70	4410	1.05	-	X						
	30	174	47.02	4620	1.15	-	X						
	32	163	43.83	4750	1.25	-	X	**FA**	**37**	**EDRS**	**80S4**	23	479
	37	142	38.31	4950	1.40	-	X	**FAF**	**37**	**EDRS**	**80S4**	24	478
	39	133	35.91	5020	1.50	-	X	**F**	**37**	**EDRS**	**80S4**	23	477
	45	118	31.69	4950	1.60	-	X	**FF**	**37**	**EDRS**	**80S4**	25	478
	50	104	28.09	4830	1.75	-	X						
	59	89	23.88	4660	2.0	-	X						
	60	88	23.63	4650	2.3	-	X						
	69	76	20.57	4500	2.5	-	X	**FA**	**37**	**EDRS**	**80S4**	23	479
	73	72	19.27	4430	2.6	-	X	**FAF**	**37**	**EDRS**	**80S4**	24	478
	83	63	17.03	4290	2.9	-	X	**F**	**37**	**EDRS**	**80S4**	23	477
	99	53	14.33	4110	3.2	-	X	**FF**	**37**	**EDRS**	**80S4**	25	478
	61	86	23.25	3190	1.50	-	X						
	70	75	20.15	3110	1.75	-	X						
	75	70	18.84	3070	1.85	-	X						
	87	60	16.28	2980	2.2	-	X						
	102	51	13.84	2870	2.5	-	X						
	115	46	12.35	2800	2.8	-	X						
	134	39	10.55	2690	3.1	-	X	**FA**	**27**	**EDRS**	**80S4**	16	475
	143	37	9.88	2650	3.3	-	X	**FAF**	**27**	**EDRS**	**80S4**	17	474
	150	35	9.40	2580	3.0	-	X	**F**	**27**	**EDRS**	**80S4**	17	473
	174	30	8.13	2490	3.3	-	X	**FF**	**27**	**EDRS**	**80S4**	18	474
	205	26	6.91	2390	3.6	-	X						
	229	23	6.17	2320	3.9	-	X						
	269	20	5.27	2220	4.4	-	X						
	287	18	4.93	2180	4.6	-	X						
	340	15	4.16	2080	5.1	-	X						
0.75	**0.52**	11700	2780	114600	1.55	-		**FA**	**157R97**	**EDRE**	**80M4**	770	527
								FAF	**157R97**	**EDRE**	**80M4**	830	527
								F	**157R97**	**EDRE**	**80M4**	790	527
								FF	**157R97**	**EDRE**	**80M4**	900	527
	0.59	10300	2427	116800	1.75	-		**FA**	**157R97**	**EDRE**	**80M4**	770	527
	0.86	7310	1674	120000	2.5	-		**FAF**	**157R97**	**EDRE**	**80M4**	830	527
	1.1	5640	1308	120000	3.2	-		**F**	**157R97**	**EDRE**	**80M4**	790	527
	1.2	4980	1169	120000	3.6	-		**FF**	**157R97**	**EDRE**	**80M4**	900	527
	0.61	10600	2357	90000	1.15	-		**FA**	**127R77**	**EDRE**	**80M4**	435	527
	0.70	9150	2038	90000	1.30	-		**FAF**	**127R77**	**EDRE**	**80M4**	470	527
	0.80	7960	1784	90000	1.50	-		**F**	**127R77**	**EDRE**	**80M4**	470	527
	0.89	7150	1606	90000	1.70	-		**FF**	**127R77**	**EDRE**	**80M4**	510	527
	0.90	7220	1597	51000	1.05	-							
	1.0	6310	1401	53300	1.20	-	X						
	1.2	5530	1243	55100	1.40	-		**FA**	**107R77**	**EDRE**	**80M4**	280	527
	1.3	4920	1087	56500	1.55	-		**FAF**	**107R77**	**EDRE**	**80M4**	305	527
	1.5	4220	950	58000	1.80	-		**F**	**107R77**	**EDRE**	**80M4**	300	527
	1.7	3680	834	59100	2.1	-		**FF**	**107R77**	**EDRE**	**80M4**	325	527
	2.2	2860	640	60600	2.7	-							
	3.3	1940	436	62300	3.9	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.75	**1.6**	4050	898	30600	1.05	-							
	1.8	3580	784	31900	1.20	-							
	2.1	3110	690	33000	1.40	-	**FA**	**97R57**	**EDRE**	**80M4**		190	527
	2.4	2740	605	33900	1.55	-	**FAF**	**97R57**	**EDRE**	**80M4**		215	527
	2.7	2380	529	34600	1.80	-	**F**	**97R57**	**EDRE**	**80M4**		200	527
	3.1	2100	467	35200	2.0	-	**FF**	**97R57**	**EDRE**	**80M4**		230	527
	3.5	1810	406	35700	2.4	-							
	4.0	1620	363	36100	2.6	-							
	2.4	2760	609	23800	1.10	-	**FA**	**87R57**	**EDRE**	**80M4**		125	527
	2.8	2330	515	25400	1.30	-	**FAF**	**87R57**	**EDRE**	**80M4**		140	527
	3.2	2050	452	26300	1.45	-	**F**	**87R57**	**EDRE**	**80M4**		130	527
	4.2	1540	345	27700	1.95	-	**FF**	**87R57**	**EDRE**	**80M4**		150	527
	4.4	1480	323	15800	1.00	-	**FA**	**77R37**	**EDRE**	**80M4**		75	527
	5.1	1280	280	17000	1.15	-	**FAF**	**77R37**	**EDRE**	**80M4**		81	527
							F	**77R37**	**EDRE**	**80M4**		78	527
							FF	**77R37**	**EDRE**	**80M4**		89	527
	5.2	1380	276.77	36500	3.1	-	**FA**	**97**	**EDRE**	**80M4**		170	509
	5.7	1260	253.41	36600	3.4	-	**FAF**	**97**	**EDRE**	**80M4**		190	508
	6.4	1110	223.88	36900	3.8	-	**F**	**97**	**EDRE**	**80M4**		175	507
							FF	**97**	**EDRE**	**80M4**		210	508
	5.3	1350	270.68	28200	2.2	-							
	5.6	1270	255.37	28400	2.4	-	**FA**	**87**	**EDRE**	**80M4**		105	504
	6.3	1140	228.93	28700	2.6	-	**FAF**	**87**	**EDRE**	**80M4**		115	503
	7.3	980	197.20	29000	3.0	-	**F**	**87**	**EDRE**	**80M4**		110	502
	8.0	890	179.97	29200	3.3	-	**FF**	**87**	**EDRE**	**80M4**		125	503
	9.0	795	159.61	29400	3.8	-							
	6.4	1120	225.79	17800	1.35	-							
	7.2	980	198.31	18300	1.50	-							
	7.6	940	188.40	18500	1.60	-	**FA**	**77**	**EDRE**	**80M4**		65	499
	8.6	830	166.47	18900	1.80	-	**FAF**	**77**	**EDRE**	**80M4**		71	498
	10	710	142.27	19200	2.1	-	**F**	**77**	**EDRE**	**80M4**		68	497
	11	650	130.42	19400	2.3	-	**FF**	**77**	**EDRE**	**80M4**		79	498
	13	570	114.45	19600	2.6	-							
	13	540	108.46*	19600	2.8	-							
	8.8	810	162.31	10400	1.00	-							
	10	710	142.40	11200	1.15	-							
	12	600	120.79	11900	1.35	-							
	13	540	109.04	12200	1.50	-	**FA**	**67**	**EDRE**	**80M4**		42	494
	15	475	95.94	12500	1.70	-	**FAF**	**67**	**EDRE**	**80M4**		48	493
	16	450	90.59	12600	1.80	-	**F**	**67**	**EDRE**	**80M4**		45	492
	18	395	79.76	12800	2.0	-	**FF**	**67**	**EDRE**	**80M4**		51	493
	21	335	67.65	13000	2.2	-							
	24	300	61.07	13000	2.4	-							
	13	545	110.01	9580	1.10	-							
	15	465	93.47	10100	1.30	-							
	17	415	83.46	10500	1.45	-	**FA**	**57**	**EDRE**	**80M4**		38	489
	20	360	72.98	10800	1.65	-	**FAF**	**57**	**EDRE**	**80M4**		43	488
	21	340	68.22	10900	1.75	-	**F**	**57**	**EDRE**	**80M4**		38	487
	24	290	58.97	11200	2.0	-	**FF**	**57**	**EDRE**	**80M4**		44	488
	29	250	50.10	11400	2.3	-							
	32	220	44.73	11300	2.6	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.75	**18**	395	79.72	5950	1.00	-	X						
	21	335	68.09	6670	1.20	-	X						
	22	325	65.36	6810	1.25	-	X						
	25	280	56.49	7220	1.40	-	X	**FA**	**47**	**EDRE**	**80M4**	30	484
	30	235	48.00*	7530	1.65	-	X	**FAF**	**47**	**EDRE**	**80M4**	33	483
	33	210	42.86	7690	1.85	-	X	**F**	**47**	**EDRE**	**80M4**	31	482
	39	183	36.61	7860	2.2	-	X	**FF**	**47**	**EDRE**	**80M4**	34	483
	42	171	34.29	7780	2.3	-	X						
	50	144	28.88	7460	2.6	-	X						
	37	191	38.31	4420	1.05	-	X	**FA**	**37**	**EDRE**	**80M4**	25	479
	40	179	35.91	4570	1.10	-	X	**FAF**	**37**	**EDRE**	**80M4**	27	478
	45	158	31.69	4590	1.20	-	X	**F**	**37**	**EDRE**	**80M4**	26	477
	51	140	28.09	4510	1.30	-	X	**FF**	**37**	**EDRE**	**80M4**	28	478
	61	118	23.63	4370	1.70	-	X						
	70	103	20.57	4260	1.85	-	X	**FA**	**37**	**EDRE**	**80M4**	25	479
	74	96	19.27	4200	1.95	-	X	**FAF**	**37**	**EDRE**	**80M4**	27	478
	84	85	17.03	4090	2.1	-	X	**F**	**37**	**EDRE**	**80M4**	26	477
	100	72	14.33	3930	2.4	-	X	**FF**	**37**	**EDRE**	**80M4**	28	478
	112	64	12.87	3840	2.6	-	X						
	62	116	23.25	2910	1.10	-	X						
	71	101	20.15	2860	1.30	-	X						
	76	94	18.84	2840	1.40	-	X						
	88	81	16.28	2770	1.60	-	X						
	104	69	13.84	2700	1.85	-	X						
	116	62	12.35	2640	2.0	-	X	**FA**	**27**	**EDRE**	**80M4**	19	475
	136	53	10.55	2560	2.3	-	X	**FAF**	**27**	**EDRE**	**80M4**	20	474
	145	49	9.88	2520	2.5	-	X	**F**	**27**	**EDRE**	**80M4**	20	473
	153	47	9.40	2450	2.2	-	X	**FF**	**27**	**EDRE**	**80M4**	20	474
	177	41	8.13	2370	2.4	-	X						
	208	34	6.91	2290	2.7	-	X						
	233	31	6.17	2230	2.9	-	X						
	272	26	5.27	2140	3.3	-	X						
	291	25	4.93	2100	3.4	-	X						
	345	21	4.16	2010	3.8	-	X						
1.1	**0.51**	17900	2780	100500	1.00	-		**FA**	**157R97**	**EDRE**	**90M4**	780	527
								FAF	**157R97**	**EDRE**	**90M4**	830	527
								F	**157R97**	**EDRE**	**90M4**	800	527
								FF	**157R97**	**EDRE**	**90M4**	900	527
	0.58	15800	2427	106100	1.15	-							
	0.65	14100	2185	110000	1.25	-							
	0.73	12500	1944	113100	1.45	-							
	0.85	11100	1674	115600	1.60	-		**FA**	**157R97**	**EDRE**	**90M4**	770	527
	1.1	8610	1308	119100	2.1	-		**FAF**	**157R97**	**EDRE**	**90M4**	830	527
	1.2	7630	1169	120000	2.4	-		**F**	**157R97**	**EDRE**	**90M4**	790	527
	1.5	6100	953	120000	3.0	-		**FF**	**157R97**	**EDRE**	**90M4**	900	527
	1.7	5330	845	120000	3.4	-							
	3.2	2810	446	120000	6.4	-							
	4.7	1900	302	120000	9.4	-							
	0.80	12000	1784	90000	1.00	-		**FA**	**127R77**	**EDRE**	**90M4**	435	527
	0.88	10700	1606	90000	1.10	-		**FAF**	**127R77**	**EDRE**	**90M4**	475	527
	1.0	9330	1390	90000	1.30	-		**F**	**127R77**	**EDRE**	**90M4**	475	527
	1.2	8150	1220	90000	1.45	-		**FF**	**127R77**	**EDRE**	**90M4**	520	527
	1.3	7250	1077	90000	1.65	-							
	1.3	7380	1087	50600	1.05	-							
	1.5	6380	950	53100	1.20	-	X	**FA**	**107R77**	**EDRE**	**90M4**	285	527
	1.7	5570	834	55000	1.40	-		**FAF**	**107R77**	**EDRE**	**90M4**	305	527
	1.9	4890	736	56500	1.55	-		**F**	**107R77**	**EDRE**	**90M4**	300	527
	2.2	4310	640	57800	1.80	-		**FF**	**107R77**	**EDRE**	**90M4**	330	527

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
1.1	**2.4**	4110	605	30400	1.05	-							
	2.7	3580	529	31900	1.20	-		**FA**	**97R57**	**EDRE**	**90M4**	195	527
	3.0	3160	467	32900	1.35	-		**FAF**	**97R57**	**EDRE**	**90M4**	220	527
	3.5	2730	406	33900	1.55	-		**F**	**97R57**	**EDRE**	**90M4**	205	527
	3.9	2450	363	34500	1.75	-		**FF**	**97R57**	**EDRE**	**90M4**	235	527
	4.1	2320	345	25400	1.30	-		**FA**	**87R57**	**EDRE**	**90M4**	130	527
	4.7	2010	300	26400	1.50	-		**FAF**	**87R57**	**EDRE**	**90M4**	145	527
	5.7	1670	249	27400	1.80	-		**F**	**87R57**	**EDRE**	**90M4**	135	527
								FF	**87R57**	**EDRE**	**90M4**	150	527
	5.1	2040	276.77	35300	2.1	-							
	5.6	1870	253.41	35600	2.3	-		**FA**	**97**	**EDRE**	**90M4**	170	509
	6.3	1650	223.88	36000	2.6	-		**FAF**	**97**	**EDRE**	**90M4**	195	508
	7.5	1400	189.92	36400	3.1	-		**F**	**97**	**EDRE**	**90M4**	180	507
	8.1	1290	174.87	36600	3.3	-		**FF**	**97**	**EDRE**	**90M4**	210	508
	5.2	2000	270.68	26400	1.50	-							
	5.6	1880	255.37	26800	1.60	-							
	6.2	1690	228.93	27300	1.75	-		**FA**	**87**	**EDRE**	**90M4**	110	504
	7.2	1450	197.20	27900	2.1	-		**FAF**	**87**	**EDRE**	**90M4**	120	503
	7.9	1330	179.97	28200	2.2	-		**F**	**87**	**EDRE**	**90M4**	115	502
	8.9	1180	159.61	28600	2.5	-		**FF**	**87**	**EDRE**	**90M4**	130	503
	11	990	134.16	29000	3.0	-							
	12	910	123.29	29200	3.3	-							
	7.2	1460	198.31	15900	1.00	-							
	7.5	1390	188.40	16400	1.10	-							
	8.5	1230	166.47	17300	1.20	-							
	10.0	1050	142.27	18100	1.45	-		**FA**	**77**	**EDRE**	**90M4**	68	499
	11	960	130.42	18400	1.55	-		**FAF**	**77**	**EDRE**	**90M4**	75	498
	12	840	114.45	18800	1.75	-		**F**	**77**	**EDRE**	**90M4**	72	497
	13	800	108.46*	19000	1.85	-		**FF**	**77**	**EDRE**	**90M4**	83	498
	15	700	94.93	19300	2.1	-							
	17	630	85.52	19400	2.4	-							
	19	555	75.02	19600	2.7	-							
	13	800	109.04	10400	1.00	-							
	15	705	95.94	11200	1.15	-							
	16	670	90.59	11500	1.20	-							
	18	590	79.76	12000	1.35	-							
	21	500	67.65	12400	1.50	-		**FA**	**67**	**EDRE**	**90M4**	46	494
	23	450	61.07	12600	1.60	-		**FAF**	**67**	**EDRE**	**90M4**	52	493
	26	395	53.73	12800	1.75	-		**F**	**67**	**EDRE**	**90M4**	48	492
	28	375	50.74	12900	1.85	-		**FF**	**67**	**EDRE**	**90M4**	54	493
	33	315	43.20	13000	2.1	-							
	36	290	39.26	13000	2.2	-							
	42	250	34.01	13000	2.5	-							
	19	535	72.98	9640	1.10	-	X						
	21	500	68.22	9890	1.20	-	X						
	24	435	58.97	10300	1.40	-	X	**FA**	**57**	**EDRE**	**90M4**	42	489
	28	370	50.10	10700	1.60	-	X	**FAF**	**57**	**EDRE**	**90M4**	47	488
	32	330	44.73	10700	1.75	-	X	**F**	**57**	**EDRE**	**90M4**	42	487
	37	280	38.21	10300	2.00	-	X	**FF**	**57**	**EDRE**	**90M4**	48	488
	40	260	35.79	10200	2.1	-	X						
	47	220	30.15	9780	2.4	-	X						
	30	355	48.00*	6500	1.15	-	X						
	33	315	42.86	6900	1.25	-	X	**FA**	**47**	**EDRE**	**90M4**	34	484
	39	270	36.61	7300	1.50	-	X	**FAF**	**47**	**EDRE**	**90M4**	37	483
	41	250	34.29	7240	1.60	-	X	**F**	**47**	**EDRE**	**90M4**	35	482
	49	210	28.88	7020	1.80	-	X	**FF**	**47**	**EDRE**	**90M4**	38	483

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
1.1	**46**	225	30.86	7110	1.75	-	X							
	48	215	29.32	7040	1.85	-	X	**FA**	**47**	**EDRE**	**90M4**	33	484
	55	190	25.72	6860	2.1	-	X	**FAF**	**47**	**EDRE**	**90M4**	36	483
	65	161	21.82	6620	2.5	-	X	**F**	**47**	**EDRE**	**90M4**	34	482
	72	146	19.70	6470	2.8	-	X	**FF**	**47**	**EDRE**	**90M4**	37	483
	59	177	23.88	3930	1.00	-	X	**FA**	**37**	**EDRE**	**90M4**	29	479
								FAF	**37**	**EDRE**	**90M4**	31	478
								F	**37**	**EDRE**	**90M4**	30	477
								FF	**37**	**EDRE**	**90M4**	31	478
	69	152	20.57	3870	1.25	-	X							
	74	143	19.27	3840	1.30	-	X							
	83	126	17.03	3770	1.45	-	X	**FA**	**37**	**EDRE**	**90M4**	29	479
	99	106	14.33	3670	1.65	-	X	**FAF**	**37**	**EDRE**	**90M4**	30	478
	110	95	12.87	3600	1.75	-	X	**F**	**37**	**EDRE**	**90M4**	29	477
	128	82	11.08	3490	2.0	-	X	**FF**	**37**	**EDRE**	**90M4**	31	478
	136	77	10.42	3450	2.1	-	X							
	158	66	8.97	3340	2.4	-	X							
	87	120	16.28	2440	1.10	-	X							
	103	102	13.84	2410	1.25	-	X							
	115	91	12.35	2390	1.40	-	X							
	135	78	10.55	2340	1.55	-	X							
	144	73	9.88	2320	1.65	-	X	**FA**	**27**	**EDRE**	**90M4**	23	475
	151	70	9.40	2240	1.50	-	X	**FAF**	**27**	**EDRE**	**90M4**	23	474
	175	60	8.13	2190	1.65	-	X	**F**	**27**	**EDRE**	**90M4**	23	473
	206	51	6.91	2130	1.80	-	X	**FF**	**27**	**EDRE**	**90M4**	24	474
	230	46	6.17	2090	1.95	-	X							
	270	39	5.27	2020	2.2	-	X							
	288	36	4.93	2000	2.3	-	X							
	342	31	4.16	1920	2.6	-	X							
1.5	**0.74**	17300	1944	102100	1.05	-								
	0.85	15200	1674	107600	1.20	-								
	1.1	11800	1308	114400	1.50	-		**FA**	**157R97**	**EDRE**	**90L4**	780	527
	1.2	10500	1169	116500	1.70	-		**FAF**	**157R97**	**EDRE**	**90L4**	830	527
	1.5	8450	953	119300	2.1	-		**F**	**157R97**	**EDRE**	**90L4**	800	527
	1.7	7410	845	120000	2.4	-		**FF**	**157R97**	**EDRE**	**90L4**	900	527
	3.2	3910	446	120000	4.6	-								
	4.7	2650	302	120000	6.8	-								
	1.2	11100	1220	90000	1.05	-								
	1.3	9910	1077	90000	1.20	-		**FA**	**127R77**	**EDRE**	**90L4**	440	527
	1.5	8500	930	90000	1.40	-		**FAF**	**127R77**	**EDRE**	**90L4**	475	527
	1.7	7480	820	90000	1.60	-		**F**	**127R77**	**EDRE**	**90L4**	475	527
	2.0	6610	727	90000	1.80	-		**FF**	**127R77**	**EDRE**	**90L4**	520	527
	2.2	5960	648	90000	2.0	-								
	1.7	7630	834	49900	1.00	-								
	1.9	6710	736	52300	1.15	-								
	2.2	5890	640	54300	1.30	-	X	**FA**	**107R77**	**EDRE**	**90L4**	290	527
	2.6	5090	560	56100	1.50	-	X	**FAF**	**107R77**	**EDRE**	**90L4**	310	527
	2.9	4440	489	57500	1.75	-		**F**	**107R77**	**EDRE**	**90L4**	305	527
	3.3	4010	436	58400	1.90	-		**FF**	**107R77**	**EDRE**	**90L4**	335	527
	3.9	3400	370	59600	2.3	-								
	3.1	4320	467	29800	1.00	-		**FA**	**97R57**	**EDRE**	**90L4**	200	527
	3.5	3730	406	31500	1.15	-		**FAF**	**97R57**	**EDRE**	**90L4**	220	527
	3.9	3340	363	32500	1.30	-		**F**	**97R57**	**EDRE**	**90L4**	205	527
								FF	**97R57**	**EDRE**	**90L4**	240	527
	4.8	2760	300	23900	1.10	-		**FA**	**87R57**	**EDRE**	**90L4**	135	527
	5.7	2290	249	25500	1.30	-	X	**FAF**	**87R57**	**EDRE**	**90L4**	145	527
								F	**87R57**	**EDRE**	**90L4**	140	527
								FF	**87R57**	**EDRE**	**90L4**	155	527

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
1.5	**5.2**	2770	276.77	33800	1.55	-								
	5.6	2530	253.41	34300	1.70	-		**FA**	**97**	**EDRE**	**90L4**		175	509
	6.4	2240	223.88	34900	1.90	-		**FAF**	**97**	**EDRE**	**90L4**		195	508
	7.5	1900	189.92	35600	2.3	-		**F**	**97**	**EDRE**	**90L4**		180	507
	8.2	1750	174.87	35800	2.4	-		**FF**	**97**	**EDRE**	**90L4**		215	508
	5.3	2710	270.68	24000	1.10	-								
	5.6	2550	255.37	24600	1.15	-	X							
	6.2	2290	228.93	25500	1.30	-	X							
	7.2	1970	197.20	26500	1.50	-		**FA**	**87**	**EDRE**	**90L4**		110	504
	8.0	1800	179.97	27000	1.65	-		**FAF**	**87**	**EDRE**	**90L4**		125	503
	9.0	1590	159.61	27600	1.90	-		**F**	**87**	**EDRE**	**90L4**		115	502
	11	1340	134.16	28200	2.2	-		**FF**	**87**	**EDRE**	**90L4**		130	503
	13	1090	109.49	28800	2.7	-								
	15	980	97.89	29000	2.9	-								
	10	1420	142.27	16200	1.05	-								
	11	1300	130.42	16900	1.15	-								
	12	1140	114.45	17700	1.30	-								
	13	1080	108.46*	18000	1.40	-								
	15	950	94.93	18500	1.60	-								
	17	850	85.52	18800	1.75	-		**FA**	**77**	**EDRE**	**90L4**		71	499
	19	750	75.02	19100	2.0	-		**FAF**	**77**	**EDRE**	**90L4**		78	498
	20	725	72.50	19200	2.1	-		**F**	**77**	**EDRE**	**90L4**		75	497
	22	665	66.46	19300	2.2	-		**FF**	**77**	**EDRE**	**90L4**		86	498
	25	580	58.32	19500	2.6	-								
	26	550	55.27	19600	2.7	-								
	30	480	48.37	19700	3.0	-								
	33	435	43.58	19800	3.3	-								
	37	380	38.23	19900	3.7	-								
	39	365	36.58	19900	3.0	-		**FA**	**77**	**EDRE**	**90L4**		70	499
	45	315	31.51	20000	4.4	-		**FAF**	**77**	**EDRE**	**90L4**		76	498
								F	**77**	**EDRE**	**90L4**		74	497
								FF	**77**	**EDRE**	**90L4**		84	498
	18	795	79.76	10500	1.00	-								
	21	675	67.65	11400	1.10	-								
	23	610	61.07	11800	1.20	-		**FA**	**67**	**EDRE**	**90L4**		48	494
	27	535	53.73	12200	1.30	-		**FAF**	**67**	**EDRE**	**90L4**		55	493
	28	505	50.74	12400	1.35	-		**F**	**67**	**EDRE**	**90L4**		51	492
	33	430	43.20	12700	1.55	-		**FF**	**67**	**EDRE**	**90L4**		57	493
	36	390	39.26	12800	1.65	-								
	39	360	36.30	12900	2.3	-		**FA**	**67**	**EDRE**	**90L4**		47	494
	45	320	32.08	13000	2.6	-		**FAF**	**67**	**EDRE**	**90L4**		53	493
	52	270	27.41	13000	3.0	-		**F**	**67**	**EDRE**	**90L4**		50	492
	57	250	25.13	13000	3.3	-		**FF**	**67**	**EDRE**	**90L4**		56	493
	24	590	58.97	9270	1.00	-	X							
	29	500	50.10	9910	1.15	-	X	**FA**	**57**	**EDRE**	**90L4**		44	489
	32	445	44.73	9970	1.30	-	X	**FAF**	**57**	**EDRE**	**90L4**		50	488
	37	380	38.21	9710	1.45	-	X	**F**	**57**	**EDRE**	**90L4**		45	487
	40	355	35.79	9600	1.55	-	X	**FF**	**57**	**EDRE**	**90L4**		51	488
	47	300	30.15	9280	1.75	-	X							
	39	365	36.61	6360	1.10	-	X	**FA**	**47**	**EDRE**	**90L4**		37	484
	42	340	34.29	6610	1.15	-	X	**FAF**	**47**	**EDRE**	**90L4**		39	483
	50	285	28.88	6480	1.30	-	X	**F**	**47**	**EDRE**	**90L4**		37	482
								FF	**47**	**EDRE**	**90L4**		41	483

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
1.5	**46**	305	30.86	6540	1.30	-	X						
	49	290	29.32	6500	1.35	-	X						
	56	255	25.72	6380	1.55	-	X	**FA**	**47**	**EDRE**	**90L4**	36	484
	66	215	21.82	6210	1.85	-	X	**FAF**	**47**	**EDRE**	**90L4**	39	483
	73	197	19.70	6100	2.0	-	X	**F**	**47**	**EDRE**	**90L4**	37	482
	83	174	17.33	5950	2.3	-	X	**FF**	**47**	**EDRE**	**90L4**	40	483
	87	164	16.36	5880	2.4	-	X						
	103	140	13.93	5680	2.9	-	X						
	84	170	17.03	3390	1.05	-	X						
	100	144	14.33	3350	1.20	-	X						
	111	129	12.87	3310	1.30	-	X	**FA**	**37**	**EDRE**	**90L4**	32	479
	129	111	11.08	3240	1.50	-	X	**FAF**	**37**	**EDRE**	**90L4**	33	478
	137	104	10.42	3210	1.55	-	X	**F**	**37**	**EDRE**	**90L4**	32	477
	159	90	8.97	3130	1.75	-	X	**FF**	**37**	**EDRE**	**90L4**	34	478
	178	80	8.01	3070	1.95	-	X						
	116	124	12.35	2090	1.00	-	X						
	136	106	10.55	2090	1.15	-	X						
	145	99	9.88	2080	1.25	-	X						
	152	94	9.40	1990	1.10	-	X	**FA**	**27**	**EDRE**	**90L4**	25	475
	176	81	8.13	1970	1.20	-	X	**FAF**	**27**	**EDRE**	**90L4**	26	474
	207	69	6.91	1950	1.35	-	X	**F**	**27**	**EDRE**	**90L4**	26	473
	232	62	6.17	1920	1.45	-	X	**FF**	**27**	**EDRE**	**90L4**	27	474
	271	53	5.27	1880	1.65	-	X						
	290	49	4.93	1860	1.70	-	X						
	344	42	4.16	1810	1.90	-	X						
2.2	**1.1**	17600	1308	101300	1.00	-							
	1.2	15700	1169	106400	1.15	-							
	1.5	12600	953	112900	1.40	-							
	1.7	11100	845	115500	1.60	-							
	1.9	10000	764	117200	1.80	-		**FA**	**157R97**	**EDRE**	**100M4**	780	527
	2.1	8930	680	118700	2.0	-		**FAF**	**157R97**	**EDRE**	**100M4**	840	527
	2.5	7490	576	120000	2.4	-		**F**	**157R97**	**EDRE**	**100M4**	800	527
	3.2	5900	446	120000	3.0	-		**FF**	**157R97**	**EDRE**	**100M4**	910	527
	4.7	3990	302	120000	4.5	-							
	5.2	3590	273	120000	5.0	-							
	6.2	3010	232	120000	6.0	-							
	7.3	2550	197	120000	7.0	-							
	1.7	11100	820	90000	1.10	-							
	2.0	9840	727	90000	1.20	-		**FA**	**127R77**	**EDRE**	**100M4**	445	527
	2.2	8840	648	90000	1.35	-		**FAF**	**127R77**	**EDRE**	**100M4**	480	527
	2.6	7490	549	90000	1.60	-		**F**	**127R77**	**EDRE**	**100M4**	480	527
	2.9	6740	495	90000	1.80	-		**FF**	**127R77**	**EDRE**	**100M4**	530	527
	3.3	5830	428	90000	2.1	-							
	2.5	7590	560	50000	1.00	-							
	2.9	6620	489	52500	1.15	-		**FA**	**107R77**	**EDRE**	**100M4**	295	527
	3.3	5950	436	54100	1.30	-	X	**FAF**	**107R77**	**EDRE**	**100M4**	315	527
	3.8	5040	370	56200	1.50	-	X	**F**	**107R77**	**EDRE**	**100M4**	310	527
	4.3	4540	333	57300	1.70	-		**FF**	**107R77**	**EDRE**	**100M4**	340	527
	5.0	3900	285	31000	1.10	-		**FA**	**97R57**	**EDRE**	**100M4**	205	527
	5.8	3350	245	32500	1.30	-	X	**FAF**	**97R57**	**EDRE**	**100M4**	225	527
								F	**97R57**	**EDRE**	**100M4**	210	527
								FF	**97R57**	**EDRE**	**100M4**	245	527
	5.6	3750	254.40*	58900	2.0	-		**FA**	**107**	**EDRE**	**100M4**	255	514
	6.6	3170	215.37	60100	2.4	-		**FAF**	**107**	**EDRE**	**100M4**	275	513
	7.2	2930	199.31	60500	2.6	-		**F**	**107**	**EDRE**	**100M4**	270	512
	8.0	2630	178.64	61100	2.9	-		**FF**	**107**	**EDRE**	**100M4**	300	513

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
2.2	**5.2**	4080	276.77	30500	1.05	-							
	5.6	3730	253.41	31500	1.15	-							
	6.4	3300	223.88	32600	1.30	-		**FA**	**97**	**EDRE**	**100M4**	180	509
	7.5	2790	189.92	33800	1.55	-		**FAF**	**97**	**EDRE**	**100M4**	200	508
	8.2	2570	174.87	34200	1.65	-		**F**	**97**	**EDRE**	**100M4**	185	507
	9.1	2300	156.30	34800	1.85	-		**FF**	**97**	**EDRE**	**100M4**	220	508
	10	2070	140.71	35300	2.1	-							
	11	1870	127.42	35600	2.3	-							
	7.2	2900	197.20	23000	1.05	-							
	7.9	2650	179.97	24300	1.15	-							
	8.9	2350	159.61	25300	1.25	-	X						
	11	1970	134.16	26500	1.50	-	X						
	12	1810	123.29	27000	1.65	-							
	13	1610	109.49	27500	1.85	-		**FA**	**87**	**EDRE**	**100M4**	115	504
	15	1440	97.89	28000	1.95	-		**FAF**	**87**	**EDRE**	**100M4**	130	503
	16	1290	88.01	28300	2.1	-		**F**	**87**	**EDRE**	**100M4**	120	502
	19	1120	76.39	27800	2.3	-		**FF**	**87**	**EDRE**	**100M4**	135	503
	21	1000	68.40	27100	2.5	-							
	25	830	56.75	25900	2.9	-							
	28	740	50.36	25100	3.0	-							
	31	665	45.28	24400	3.2	-							
	15	1390	94.93	16400	1.05	-							
	17	1260	85.52	17100	1.20	-	X						
	19	1100	75.02	17900	1.35	-		**FA**	**77**	**EDRE**	**100M4**	76	499
	21	970	66.46	18400	1.55	-		**FAF**	**77**	**EDRE**	**100M4**	83	498
	24	850	58.32	18800	1.75	-		**F**	**77**	**EDRE**	**100M4**	80	497
	26	810	55.27	18900	1.85	-		**FF**	**77**	**EDRE**	**100M4**	90	498
	29	710	48.37	19200	2.0	-							
	33	640	43.58	19400	2.2	-							
	39	535	36.58	19600	2.1	-		**FA**	**77**	**EDRE**	**100M4**	75	499
	45	460	31.51	19800	3.0	-		**FAF**	**77**	**EDRE**	**100M4**	81	498
	50	420	28.75	19800	3.3	-		**F**	**77**	**EDRE**	**100M4**	78	497
	56	375	25.50*	19900	4.0	-		**FF**	**77**	**EDRE**	**100M4**	89	498
	33	635	43.20	11700	1.05	-		**FA**	**67**	**EDRE**	**100M4**	53	494
	36	575	39.26	12000	1.10	-		**FAF**	**67**	**EDRE**	**100M4**	59	493
	42	500	34.01	12400	1.25	-		**F**	**67**	**EDRE**	**100M4**	56	492
								FF	**67**	**EDRE**	**100M4**	62	493
	44	470	32.08	12500	1.75	-							
	52	400	27.41	12800	2.0	-		**FA**	**67**	**EDRE**	**100M4**	52	494
	57	370	25.13	12900	2.2	-		**FAF**	**67**	**EDRE**	**100M4**	58	493
	65	325	22.05	13000	2.5	-		**F**	**67**	**EDRE**	**100M4**	55	492
	68	305	20.90*	13000	2.7	-		**FF**	**67**	**EDRE**	**100M4**	61	493
	78	265	18.29	13000	3.0	-							
	40	525	35.79	8610	1.05	-	X	**FA**	**57**	**EDRE**	**100M4**	49	489
	47	440	30.15	8450	1.20	-	X	**FAF**	**57**	**EDRE**	**100M4**	55	488
								F	**57**	**EDRE**	**100M4**	49	487
								FF	**57**	**EDRE**	**100M4**	56	488
	57	365	24.96	8230	1.55	-	X						
	67	310	21.17	8000	1.90	-	X	**FA**	**57**	**EDRE**	**100M4**	49	489
	75	280	19.11	7850	2.1	-	X	**FAF**	**57**	**EDRE**	**100M4**	54	488
	85	245	16.81	7650	2.4	-	X	**F**	**57**	**EDRE**	**100M4**	49	487
	90	230	15.88	7560	2.5	-	X	**FF**	**57**	**EDRE**	**100M4**	55	488

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
2.2	**55**	375	25.72	5560	1.05	-	X							
	65	320	21.82	5520	1.25	-	X							
	72	290	19.70	5470	1.40	-	X							
	82	255	17.33	5400	1.55	-	X	**FA**	**47**	**EDRE**	**100M4**	41	484
	87	240	16.36	5360	1.65	-	X	**FAF**	**47**	**EDRE**	**100M4**	44	483
	102	205	13.93	5240	1.95	-	X	**F**	**47**	**EDRE**	**100M4**	42	482
	113	187	12.66	5160	2.1	-	X	**FF**	**47**	**EDRE**	**100M4**	45	483
	130	162	10.97	5030	2.5	-	X							
	159	132	8.96	4730	2.5	-	X							
	129	163	11.08	2820	1.00	-	X							
	137	154	10.42	2810	1.05	-	X							
	159	132	8.97	2790	1.20	-	X							
	178	118	8.01	2760	1.35	-	X	**FA**	**37**	**EDRE**	**100M4**	37	479
	211	99	6.74	2620	1.15	-	X	**FAF**	**37**	**EDRE**	**100M4**	38	478
	236	89	6.05	2590	1.25	-	X	**F**	**37**	**EDRE**	**100M4**	37	477
	273	77	5.21	2540	1.40	-	X	**FF**	**37**	**EDRE**	**100M4**	39	478
	291	72	4.90	2510	1.45	-	X							
	338	62	4.22	2450	1.60	-	X							
	378	56	3.77	2400	1.70	-	X							
	271	78	5.27	1640	1.10	-	X	**FA**	**27**	**EDRE**	**100M4**	30	475
	289	73	4.93	1640	1.15	-	X	**FAF**	**27**	**EDRE**	**100M4**	31	474
	343	61	4.16	1620	1.30	-	X	**F**	**27**	**EDRE**	**100M4**	31	473
								FF	**27**	**EDRE**	**100M4**	32	474
3.0	**1.5**	17100	953	102800	1.05	-								
	1.7	15100	845	107900	1.20	-								
	1.9	13500	764	111100	1.30	-								
	2.1	12000	680	114000	1.50	-		**FA**	**157R97**	**EDRE**	**100LC4**	790	527
	2.5	10100	576	117000	1.75	-		**FAF**	**157R97**	**EDRE**	**100LC4**	840	527
	3.3	7980	446	119800	2.2	-		**F**	**157R97**	**EDRE**	**100LC4**	810	527
	4.8	5400	302	120000	3.3	-		**FF**	**157R97**	**EDRE**	**100LC4**	910	527
	5.3	4860	273	120000	3.7	-								
	6.3	4080	232	120000	4.4	-								
	7.4	3460	197	120000	5.2	-								
	2.2	11800	648	90000	1.00	-		**FA**	**127R77**	**EDRE**	**100LC4**	450	527
	2.6	10000	549	90000	1.20	-		**FAF**	**127R77**	**EDRE**	**100LC4**	485	527
	2.9	9040	495	90000	1.35	-		**F**	**127R77**	**EDRE**	**100LC4**	485	527
								FF	**127R77**	**EDRE**	**100LC4**	530	527
	3.9	6760	370	52200	1.15	-		**FA**	**107R77**	**EDRE**	**100LC4**	300	527
	4.4	6090	333	53800	1.25	-		**FAF**	**107R77**	**EDRE**	**100LC4**	320	527
	5.0	5320	291	55600	1.45	-		**F**	**107R77**	**EDRE**	**100LC4**	315	527
								FF	**107R77**	**EDRE**	**100LC4**	340	527
	5.7	5000	254.40*	56300	1.55	-								
	6.8	4240	215.37	57900	1.80	-		**FA**	**107**	**EDRE**	**100LC4**	260	514
	7.3	3920	199.31	58600	1.95	-		**FAF**	**107**	**EDRE**	**100LC4**	280	513
	8.1	3510	178.64	59400	2.2	-		**F**	**107**	**EDRE**	**100LC4**	275	512
	9.0	3170	161.28*	60100	2.4	-		**FF**	**107**	**EDRE**	**100LC4**	305	513
	7.7	3730	189.92	31500	1.15	-								
	8.3	3440	174.87	32200	1.25	-								
	9.3	3070	156.30	33100	1.40	-		**FA**	**97**	**EDRE**	**100LC4**	185	509
	10	2770	140.71	33800	1.55	-		**FAF**	**97**	**EDRE**	**100LC4**	205	508
	11	2500	127.42	34400	1.70	-		**F**	**97**	**EDRE**	**100LC4**	190	507
	13	2220	112.99	35000	1.95	-		**FF**	**97**	**EDRE**	**100LC4**	225	508
	14	2010	102.16	35400	2.1	-								
	16	1760	89.85	35800	2.4	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
3.0	**11**	2640	134.16	24300	1.15	-							
	12	2420	123.29	25100	1.25	-							
	13	2150	109.49	26000	1.35	-							
	15	1920	97.89	26700	1.50	-		**FA**	**87**	**EDRE**	**100LC4**	120	504
	17	1730	88.01	26700	1.60	-		**FAF**	**87**	**EDRE**	**100LC4**	135	503
	19	1500	76.39	26100	1.75	-		**F**	**87**	**EDRE**	**100LC4**	125	502
	21	1340	68.40	25500	1.90	-		**FF**	**87**	**EDRE**	**100LC4**	140	503
	26	1110	56.75	24600	2.2	-							
	29	990	50.36	23900	2.2	-							
	19	1470	75.02	15900	1.00	-							
	22	1300	66.46	16900	1.15	-							
	25	1140	58.32	17700	1.30	-		**FA**	**77**	**EDRE**	**100LC4**	81	499
	26	1080	55.27	18000	1.40	-		**FAF**	**77**	**EDRE**	**100LC4**	88	498
	30	950	48.37	18500	1.50	-		**F**	**77**	**EDRE**	**100LC4**	85	497
	33	850	43.58	18800	1.65	-		**FF**	**77**	**EDRE**	**100LC4**	95	498
	38	750	38.23	19100	1.85	-							
	40	720	36.58	19200	1.55	-							
	46	620	31.51	19500	2.2	-		**FA**	**77**	**EDRE**	**100LC4**	80	499
	51	565	28.75	19600	2.5	-		**FAF**	**77**	**EDRE**	**100LC4**	86	498
	57	500	25.50*	19700	3.0	-		**F**	**77**	**EDRE**	**100LC4**	83	497
	68	420	21.43	19800	3.6	-		**FF**	**77**	**EDRE**	**100LC4**	94	498
	45	630	32.08	11700	1.30	-							
	53	535	27.41	12200	1.50	-							
	58	490	25.13	12400	1.65	-		**FA**	**67**	**EDRE**	**100LC4**	57	494
	66	430	22.05	12700	1.90	-		**FAF**	**67**	**EDRE**	**100LC4**	63	493
	70	410	20.90*	12800	2.00	-		**F**	**67**	**EDRE**	**100LC4**	60	492
	80	360	18.29	12900	2.3	-		**FF**	**67**	**EDRE**	**100LC4**	66	493
	88	320	16.48	13000	2.5	-							
	101	280	14.46	13000	2.8	-							
	58	490	24.96	7420	1.15	-	X						
	69	415	21.17	7310	1.45	-	X						
	76	375	19.11	7220	1.60	-	X	**FA**	**57**	**EDRE**	**100LC4**	54	489
	87	330	16.81	7100	1.80	-	X	**FAF**	**57**	**EDRE**	**100LC4**	59	488
	92	310	15.88	7040	1.85	-	X	**F**	**57**	**EDRE**	**100LC4**	54	487
	108	265	13.52	6850	2.1	-	X	**FF**	**57**	**EDRE**	**100LC4**	60	488
	118	240	12.29	6730	2.3	-	X						
	137	205	10.64	6540	2.6	-	X						
	74	385	19.70	4760	1.05	-	X						
	84	340	17.33	4760	1.15	-	X						
	89	320	16.36	4760	1.25	-	X	**FA**	**47**	**EDRE**	**100LC4**	46	484
	104	270	13.93	4720	1.45	-	X	**FAF**	**47**	**EDRE**	**100LC4**	49	483
	115	245	12.66	4690	1.60	-	X	**F**	**47**	**EDRE**	**100LC4**	47	482
	133	215	10.97	4620	1.85	-	X	**FF**	**47**	**EDRE**	**100LC4**	50	483
	162	176	8.96	4350	1.85	-	X						
	279	103	5.21	2280	1.05	-	X	**FA**	**37**	**EDRE**	**100LC4**	42	479
	297	96	4.90	2270	1.10	-	X	**FAF**	**37**	**EDRE**	**100LC4**	43	478
	345	83	4.22	2240	1.20	-	X	**F**	**37**	**EDRE**	**100LC4**	42	477
	386	74	3.77	2210	1.30	-	X	**FF**	**37**	**EDRE**	**100LC4**	44	478
4.0	**2.2**	16200	680	105100	1.10	-							
	2.5	13600	576	111000	1.30	-							
	3.3	10700	446	116200	1.70	-		**FA**	**157R97**	**EDRE**	**132S4**	800	527
	4.8	7240	302	120000	2.5	-		**FAF**	**157R97**	**EDRE**	**132S4**	860	527
	5.3	6520	273	120000	2.8	-		**F**	**157R97**	**EDRE**	**132S4**	820	527
	6.3	5500	232	120000	3.3	-		**FF**	**157R97**	**EDRE**	**132S4**	930	527
	7.4	4660	197	120000	3.9	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
4.0	**3.4**	10400	428	90000	1.15	-		**FA**	**127R77**	**EDRE**	**132S4**		465	527
	3.9	9140	376	90000	1.30	-		**FAF**	**127R77**	**EDRE**	**132S4**		500	527
								F	**127R77**	**EDRE**	**132S4**		500	527
								FF	**127R77**	**EDRE**	**132S4**		540	527
	5.0	7090	291	51300	1.10	-		**FA**	**107R77**	**EDRE**	**132S4**		310	527
	5.7	6210	255	53500	1.25	-		**FAF**	**107R77**	**EDRE**	**132S4**		335	527
								F	**107R77**	**EDRE**	**132S4**		330	527
								FF	**107R77**	**EDRE**	**132S4**		355	527
	5.7	6650	254.40*	52400	1.15	-								
	6.8	5630	215.37	54900	1.35	-								
	7.3	5210	199.31	55800	1.45	-								
	8.2	4670	178.64	57000	1.65	-		**FA**	**107**	**EDRE**	**132S4**		270	514
	9.0	4210	161.28*	58000	1.80	-		**FAF**	**107**	**EDRE**	**132S4**		295	513
	10.0	3830	146.49	58800	2.0	-		**F**	**107**	**EDRE**	**132S4**		290	512
	11	3400	129.97	59600	2.3	-		**FF**	**107**	**EDRE**	**132S4**		315	513
	12	3080	117.94	60200	2.5	-								
	14	2650	101.38*	61000	2.9	-								
	9.3	4080	156.30	30500	1.05	-								
	10	3680	140.71	31600	1.15	-								
	11	3330	127.42	32500	1.30	-								
	13	2950	112.99	33400	1.45	-		**FA**	**97**	**EDRE**	**132S4**		200	509
	14	2670	102.16	34000	1.60	-		**FAF**	**97**	**EDRE**	**132S4**		220	508
	15	2550	97.58	34300	1.70	-		**F**	**97**	**EDRE**	**132S4**		205	507
	16	2350	89.85	34700	1.85	-		**FF**	**97**	**EDRE**	**132S4**		240	508
	18	2100	80.31	35200	2.0	-								
	20	1890	72.29	35600	2.3	-								
	22	1710	65.47	35900	2.4	-								
	13	2860	109.49	23500	1.05	-								
	15	2560	97.89	24600	1.10	-								
	17	2300	88.01	24500	1.20	-		**FA**	**87**	**EDRE**	**132S4**		135	504
	19	1990	76.39	24100	1.30	-		**FAF**	**87**	**EDRE**	**132S4**		145	503
	21	1780	68.40	23800	1.45	-		**F**	**87**	**EDRE**	**132S4**		140	502
	26	1480	56.75	23100	1.65	-		**FF**	**87**	**EDRE**	**132S4**		155	503
	29	1310	50.36	22600	1.65	-								
	32	1180	45.28	22200	1.80	-								
	26	1440	55.27	16100	1.05	-								
	30	1260	48.37	17100	1.15	-								
	34	1140	43.58	17700	1.25	-		**FA**	**77**	**EDRE**	**132S4**		95	499
	38	1000	38.23	18300	1.40	-		**FAF**	**77**	**EDRE**	**132S4**		100	498
	43	880	33.74	18700	1.55	-		**F**	**77**	**EDRE**	**132S4**		98	497
	49	780	29.91	19000	1.75	-		**FF**	**77**	**EDRE**	**132S4**		110	498
	57	665	25.54	19300	2.00	-								
	46	820	31.51	18900	1.65	-								
	51	750	28.75	19100	1.85	-		**FA**	**77**	**EDRE**	**132S4**		93	499
	57	665	25.50*	19300	2.2	-		**FAF**	**77**	**EDRE**	**132S4**		100	498
	68	560	21.43	19600	2.7	-		**F**	**77**	**EDRE**	**132S4**		97	497
	74	515	19.70	19700	2.9	-		**FF**	**77**	**EDRE**	**132S4**		110	498

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
4.0	**53**	715	27.41	11100	1.15	-	X							
	58	655	25.13	11600	1.25	-	X							
	66	575	22.05	12000	1.40	-	X							
	70	545	20.90*	12200	1.50	-	X							
	80	475	18.29	12500	1.70	-	X							
	89	430	16.48	12700	1.90	-	X							
	101	375	14.46	12900	2.1	-	X							
	114	330	12.76	13000	2.3	-	X	**FA**	**67**	**EDRE**	**132S4**	110	494	
	129	295	11.31	13000	2.6	-	X	**FAF**	**67**	**EDRE**	**132S4**	115	493	
	151	250	9.66	13000	2.9	-	X	**F**	**67**	**EDRE**	**132S4**	115	492	
	161	235	9.08	12900	2.2	-	X	**FF**	**67**	**EDRE**	**132S4**	120	493	
	170	225	8.60	12700	2.4	-	X							
	194	197	7.53	12300	2.7	-	X							
	215	178	6.78	12000	2.9	-	X							
	245	156	5.95	11700	3.2	-	X							
	278	137	5.25	11300	3.4	-	X							
	314	122	4.66	11000	3.7	-	X							
	367	104	3.97	10500	4.1	-	X							
	69	550	21.17	6490	1.10	-	X							
	76	500	19.11	6480	1.20	-	X							
	87	435	16.81	6440	1.35	-	X							
	92	415	15.88	6420	1.40	-	X							
	108	350	13.52	6320	1.60	-	X							
	119	320	12.29	6250	1.75	-	X	**FA**	**57**	**EDRE**	**132S4**	105	489	
	137	275	10.64	6120	1.95	-	X	**FAF**	**57**	**EDRE**	**132S4**	110	488	
	157	240	9.31	5820	1.45	-	X	**F**	**57**	**EDRE**	**132S4**	105	487	
	178	210	8.19	5710	1.95	-	X	**FF**	**57**	**EDRE**	**132S4**	115	488	
	189	200	7.73	5650	2.0	-	X							
	222	172	6.58	5480	2.4	-	X							
	244	157	5.98	5380	2.5	-	X							
	282	136	5.18	5220	2.7	-	X							
5.5	**2.9**	16500	503	104200	1.10	-								
	3.3	14800	446	108400	1.20	-								
	4.1	11600	353	114800	1.55	-		**FA**	**157R97**	**EDRE**	**132M4**	810	527	
	4.8	10000	302	117200	1.80	-		**FAF**	**157R97**	**EDRE**	**132M4**	870	527	
	5.3	9080	273	118500	2.00	-		**F**	**157R97**	**EDRE**	**132M4**	830	527	
	6.3	7660	232	120000	2.4	-		**FF**	**157R97**	**EDRE**	**132M4**	940	527	
	7.2	6660	202	120000	2.7	-								
	7.4	6500	197	120000	2.8	-								
	4.7	10400	312	90000	1.15	-		**FA**	**127R87**	**EDRE**	**132M4**	495	527	
	5.0	9770	293	90000	1.25	-		**FAF**	**127R87**	**EDRE**	**132M4**	530	527	
	5.6	8620	259	90000	1.40	-		**F**	**127R87**	**EDRE**	**132M4**	530	527	
	6.5	7450	223	90000	1.60	-		**FF**	**127R87**	**EDRE**	**132M4**	580	527	
	7.3	7190	199.31	51100	1.05	-								
	8.1	6440	178.64	53000	1.20	-								
	9.0	5820	161.28*	54400	1.30	-								
	9.9	5280	146.49	55700	1.45	-		**FA**	**107**	**EDRE**	**132M4**	285	514	
	11	4690	129.97	57000	1.65	-		**FAF**	**107**	**EDRE**	**132M4**	305	513	
	12	4250	117.94	57900	1.80	-		**F**	**107**	**EDRE**	**132M4**	300	512	
	14	3650	101.38*	59100	2.1	-		**FF**	**107**	**EDRE**	**132M4**	330	513	
	16	3330	92.47*	59700	2.3	-								
	16	3190	88.49	60000	2.4	-								
	17	3030	83.99	60300	2.5	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
5.5	**13**	4070	112.99	30500	1.05	-							
	14	3680	102.16	31600	1.15	-							
	15	3520	97.58	32000	1.20	-							
	16	3240	89.85	32700	1.35	-							
	17	3120	86.59	33000	1.40	-		**FA**	**97**	**EDRE**	**132M4**	210	509
	18	2890	80.31	33500	1.50	-		**FAF**	**97**	**EDRE**	**132M4**	230	508
	19	2730	75.63	33900	1.60	-		**F**	**97**	**EDRE**	**132M4**	215	507
	20	2600	72.29	34200	1.65	-		**FF**	**97**	**EDRE**	**132M4**	250	508
	22	2360	65.47	34700	1.80	-							
	25	2090	58.06	34400	1.95	-							
	28	1890	52.49	33800	2.1	-							
	21	2460	68.40	21200	1.05	-							
	26	2040	56.75	21000	1.20	-							
	29	1810	50.36	20700	1.20	-		**FA**	**87**	**EDRE**	**132M4**	145	504
	32	1630	45.28	20500	1.30	-		**FAF**	**87**	**EDRE**	**132M4**	160	503
	37	1410	39.30	20100	1.45	-		**F**	**87**	**EDRE**	**132M4**	150	502
	41	1270	35.19	19700	1.55	-		**FF**	**87**	**EDRE**	**132M4**	165	503
	50	1050	29.20	19100	1.75	-							
	43	1220	33.92	19600	2.1	-		**FA**	**87**	**EDRE**	**132M4**	145	504
	51	1030	28.78	19000	2.4	-		**FAF**	**87**	**EDRE**	**132M4**	155	503
	55	950	26.50	18700	2.8	-		**F**	**87**	**EDRE**	**132M4**	150	502
	61	850	23.68	18300	3.1	-		**FF**	**87**	**EDRE**	**132M4**	165	503
	38	1380	38.23	16500	1.00	-		**FA**	**77**	**EDRE**	**132M4**	105	499
	43	1210	33.74	17400	1.15	-		**FAF**	**77**	**EDRE**	**132M4**	115	498
	49	1070	29.91	18000	1.25	-		**F**	**77**	**EDRE**	**132M4**	110	497
	57	920	25.54	18600	1.45	-		**FF**	**77**	**EDRE**	**132M4**	120	498
	57	920	25.50*	18600	1.65	-							
	68	770	21.43	19100	1.95	-							
	74	710	19.70	19200	2.1	-		**FA**	**77**	**EDRE**	**132M4**	105	499
	83	630	17.49	19400	2.4	-		**FAF**	**77**	**EDRE**	**132M4**	110	498
	93	560	15.64*	19600	2.6	-		**F**	**77**	**EDRE**	**132M4**	110	497
	103	505	14.06	19200	2.8	-		**FF**	**77**	**EDRE**	**132M4**	120	498
	119	440	12.20	18600	3.1	-							
	66	795	22.05	10500	1.05	-	X						
	70	750	20.90*	10900	1.10	-	X						
	80	660	18.29	11500	1.25	-	X						
	88	590	16.48	11900	1.40	-	X						
	101	520	14.46	12300	1.55	-	X						
	114	460	12.76	12600	1.70	-	X						
	129	405	11.31	12800	1.85	-	X	**FA**	**67**	**EDRE**	**132M4**	120	494
	151	345	9.66	12900	2.1	-	X	**FAF**	**67**	**EDRE**	**132M4**	130	493
	160	325	9.08	12400	1.60	-	X	**F**	**67**	**EDRE**	**132M4**	125	492
	169	310	8.60	12200	1.75	-	X	**FF**	**67**	**EDRE**	**132M4**	130	493
	193	270	7.53	11900	2.00	-	X						
	214	240	6.78	11700	2.1	-	X						
	245	210	5.95	11300	2.3	-	X						
	277	190	5.25	11000	2.5	-	X						
	313	168	4.66	10700	2.7	-	X						
	366	144	3.97	10300	3.0	-	X						
	92	570	15.88	5490	1.00	-	X						
	108	485	13.52	5530	1.15	-	X						
	118	440	12.29	5530	1.25	-	X						
	137	380	10.64	5500	1.40	-	X	**FA**	**57**	**EDRE**	**132M4**	120	489
	178	295	8.19	5180	1.40	-	X	**FAF**	**57**	**EDRE**	**132M4**	125	488
	188	275	7.73	5150	1.50	-	X	**F**	**57**	**EDRE**	**132M4**	120	487
	221	235	6.58	5060	1.70	-	X	**FF**	**57**	**EDRE**	**132M4**	125	488
	243	215	5.98	5000	1.80	-	X						
	281	187	5.18	4890	1.95	-	X						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
7.5	**5.7**	11700	259	90000	1.00	-		**FA**	**127R87**	**EDRE**	**160S4**	510	527
	6.6	10100	223	90000	1.20	-		**FAF**	**127R87**	**EDRE**	**160S4**	550	527
	7.4	8960	198	90000	1.35	-		**F**	**127R87**	**EDRE**	**160S4**	550	527
								FF	**127R87**	**EDRE**	**160S4**	590	527
	8.6	8350	170.83	90000	1.45	-		**FA**	**127**	**EDRE**	**160S4**	445	519
	9.5	7510	153.67*	90000	1.60	-		**FAF**	**127**	**EDRE**	**160S4**	485	518
	12	6120	125.37	90000	1.95	-		**F**	**127**	**EDRE**	**160S4**	480	517
	13	5580	114.34	90000	2.2	-		**FF**	**127**	**EDRE**	**160S4**	530	518
	10	7160	146.49	51200	1.05	-							
	11	6350	129.97	53200	1.20	-							
	12	5760	117.94	54600	1.35	-							
	14	4950	101.38*	56400	1.55	-		**FA**	**107**	**EDRE**	**160S4**	300	514
	16	4520	92.47*	57300	1.70	-		**FAF**	**107**	**EDRE**	**160S4**	320	513
	17	4320	88.49	57800	1.80	-		**F**	**107**	**EDRE**	**160S4**	315	512
	17	4100	83.99	58200	1.85	-		**FF**	**107**	**EDRE**	**160S4**	345	513
	20	3640	74.52	59100	2.1	-							
	22	3300	67.62	59800	2.3	-							
	17	4230	86.59	30100	1.00	-							
	18	3920	80.31	31000	1.10	-							
	19	3690	75.63	31600	1.15	-							
	20	3530	72.29	32000	1.20	-		**FA**	**97**	**EDRE**	**160S4**	225	509
	22	3200	65.47	32200	1.30	-		**FAF**	**97**	**EDRE**	**160S4**	245	508
	25	2830	58.06	31700	1.45	-		**F**	**97**	**EDRE**	**160S4**	235	507
	28	2560	52.49	31300	1.55	-		**FF**	**97**	**EDRE**	**160S4**	265	508
	33	2170	44.49	30500	1.70	-							
	38	1890	38.86	29800	1.90	-							
	45	1580	32.50	28800	2.1	-							
	34	2110	43.28	30400	1.45	-		**FA**	**97**	**EDRE**	**160S4**	220	509
	40	1790	36.64	29500	1.70	-		**FAF**	**97**	**EDRE**	**160S4**	240	508
	43	1650	33.91	29000	2.6	-		**F**	**97**	**EDRE**	**160S4**	225	507
	48	1480	30.39	28400	2.9	-		**FF**	**97**	**EDRE**	**160S4**	260	508
	37	1920	39.30	18100	1.05	-		**FA**	**87**	**EDRE**	**160S4**	160	504
	42	1720	35.19	17900	1.15	-		**FAF**	**87**	**EDRE**	**160S4**	175	503
	50	1420	29.20	17600	1.30	-		**F**	**87**	**EDRE**	**160S4**	165	502
								FF	**87**	**EDRE**	**160S4**	185	503
	51	1400	28.78	17600	1.75	-							
	55	1290	26.50	17400	2.1	-							
	62	1150	23.68	17100	2.3	-		**FA**	**87**	**EDRE**	**160S4**	160	504
	69	1040	21.32*	16800	2.4	-		**FAF**	**87**	**EDRE**	**160S4**	170	503
	76	940	19.31	16500	2.6	-		**F**	**87**	**EDRE**	**160S4**	165	502
	86	830	17.12	16100	2.9	-		**FF**	**87**	**EDRE**	**160S4**	180	503
	95	755	15.48	15800	3.2	-							
	57	1240	25.54	17200	1.05	-	X	**FA**	**77**	**EDRE**	**160S4**	120	499
								FAF	**77**	**EDRE**	**160S4**	130	498
								F	**77**	**EDRE**	**160S4**	125	497
								FF	**77**	**EDRE**	**160S4**	135	498

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
7.5	**57**	1240	25.50*	17200	1.20	-	X							
	68	1040	21.43	18100	1.45	-	X							
	74	960	19.70	18400	1.55	-	X							
	84	850	17.49	18800	1.75	-	X							
	94	760	15.64*	18900	1.95	-	X							
	104	685	14.06	18500	2.1	-	X	**FA**	**77**	**EDRE**	**160S4**	120	499	
	120	595	12.20	17900	2.3	-	X	**FAF**	**77**	**EDRE**	**160S4**	130	498	
	134	530	10.93	17500	2.5	-	X	**F**	**77**	**EDRE**	**160S4**	125	497	
	158	450	9.30	16400	2.3	-	X	**FF**	**77**	**EDRE**	**160S4**	135	498	
	177	400	8.26	16000	2.6	-	X							
	198	360	7.39	15600	2.7	-	X							
	221	320	6.64	15300	2.9	-	X							
	254	280	5.76	14800	3.1	-	X							
	284	250	5.16	14400	3.3	-	X							
	342	205	4.28	13700	3.7	-	X							
9.2	**4.9**	16800	302	103600	1.05	-		**FA**	**157R97**	**EDRE**	**160M4**	840	527	
	5.4	15100	273	107700	1.20	-		**FAF**	**157R97**	**EDRE**	**160M4**	890	527	
	6.4	12800	232	112600	1.40	-		**F**	**157R97**	**EDRE**	**160M4**	860	527	
	7.3	11100	202	115500	1.60	-		**FF**	**157R97**	**EDRE**	**160M4**	960	527	
	7.5	10800	197	116000	1.65	-								
	7.4	10900	198	90000	1.10	-		**FA**	**127R87**	**EDRE**	**160M4**	520	527	
								FAF	**127R87**	**EDRE**	**160M4**	560	527	
								F	**127R87**	**EDRE**	**160M4**	560	527	
								FF	**127R87**	**EDRE**	**160M4**	600	527	
	8.6	10200	170.83	90000	1.20	-		**FA**	**127**	**EDRE**	**160M4**	455	519	
	9.6	9180	153.67*	90000	1.30	-		**FAF**	**127**	**EDRE**	**160M4**	490	518	
	12	7490	125.37	90000	1.60	-		**F**	**127**	**EDRE**	**160M4**	490	517	
	13	6830	114.34	90000	1.75	-		**FF**	**127**	**EDRE**	**160M4**	540	518	
	15	5910	98.95	90000	2.0	-								
	12	7040	117.94	51500	1.10	-								
	14	6050	101.38*	53900	1.25	-								
	16	5520	92.47*	55100	1.40	-		**FA**	**107**	**EDRE**	**160M4**	310	514	
	18	5010	83.99	56300	1.55	-		**FAF**	**107**	**EDRE**	**160M4**	330	513	
	20	4450	74.52	57500	1.70	-		**F**	**107**	**EDRE**	**160M4**	325	512	
	22	4040	67.62	58300	1.90	-		**FF**	**107**	**EDRE**	**160M4**	355	513	
	25	3470	58.12*	58000	2.2	-								
	29	3030	50.73	56500	2.5	-								
	20	4320	72.29	29600	1.00	-								
	22	3910	65.47	29600	1.05	-								
	25	3460	58.06	29500	1.15	-		**FA**	**97**	**EDRE**	**160M4**	235	509	
	28	3130	52.49	29300	1.25	-		**FAF**	**97**	**EDRE**	**160M4**	255	508	
	33	2650	44.49	28800	1.40	-		**F**	**97**	**EDRE**	**160M4**	240	507	
	38	2320	38.86	28300	1.55	-		**FF**	**97**	**EDRE**	**160M4**	275	508	
	45	1940	32.50	27500	1.75	-								
	43	2020	33.91	27700	2.1	-		**FA**	**97**	**EDRE**	**160M4**	230	509	
	48	1810	30.39	27200	2.4	-		**FAF**	**97**	**EDRE**	**160M4**	250	508	
	54	1630	27.44*	26700	2.6	-		**F**	**97**	**EDRE**	**160M4**	235	507	
	59	1480	24.92	26200	2.9	-		**FF**	**97**	**EDRE**	**160M4**	270	508	
	50	1740	29.20	16300	1.05	-		**FA**	**87**	**EDRE**	**160M4**	170	504	
								FAF	**87**	**EDRE**	**160M4**	185	503	
								F	**87**	**EDRE**	**160M4**	175	502	
								FF	**87**	**EDRE**	**160M4**	190	503	

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
9.2	**55**	1580	26.50	16200	1.70	-							
	62	1410	23.68	16000	1.85	-							
	69	1270	21.32*	15900	2.0	-		**FA**	**87**	**EDRE**	**160M4**	170	504
	76	1150	19.31	15600	2.2	-		**FAF**	**87**	**EDRE**	**160M4**	180	503
	86	1020	17.12	15400	2.4	-		**F**	**87**	**EDRE**	**160M4**	175	502
	95	920	15.48	15100	2.6	-		**FF**	**87**	**EDRE**	**160M4**	190	503
	112	780	13.12*	14600	3.1	-							
	75	1170	19.70	17600	1.25	-	X						
	84	1040	17.49	18100	1.45	-	X						
	94	930	15.64*	18200	1.60	-	X						
	105	840	14.06	17900	1.70	-	X						
	120	725	12.20	17400	1.85	-	X						
	135	650	10.93	17100	2.0	-	X	**FA**	**77**	**EDRE**	**160M4**	130	499
	158	555	9.30	15900	1.90	-	X	**FAF**	**77**	**EDRE**	**160M4**	135	498
	178	490	8.26	15600	2.1	-	X	**F**	**77**	**EDRE**	**160M4**	135	497
	199	440	7.39	15200	2.2	-	X	**FF**	**77**	**EDRE**	**160M4**	145	498
	221	395	6.64	14900	2.3	-	X						
	255	340	5.76	14500	2.6	-	X						
	285	305	5.16	14100	2.7	-	X						
	343	255	4.28	13500	3.0	-	X						
11.0	**6.4**	15300	232	107200	1.15	-		**FA**	**157R97**	**EDRE**	**180S4**	870	527
	7.3	13300	202	111500	1.35	-		**FAF**	**157R97**	**EDRE**	**180S4**	930	527
	7.5	13000	197	112200	1.40	-		**F**	**157R97**	**EDRE**	**180S4**	890	527
								FF	**157R97**	**EDRE**	**180S4**	1000	527
	8.8	11000	166	90000	1.10	-		**FA**	**127R87**	**EDRE**	**180S4**	550	527
								FAF	**127R87**	**EDRE**	**180S4**	590	527
								F	**127R87**	**EDRE**	**180S4**	590	527
								FF	**127R87**	**EDRE**	**180S4**	630	527
	6.8	15500	217.62*	106800	1.15	-							
	8.2	12700	178.20*	112800	1.40	-							
	9.0	11600	162.96	114700	1.55	-							
	10	10100	141.80*	117100	1.80	-		**FA**	**157**	**EDRE**	**180S4**	740	524
	12	8940	125.14	118700	2.0	-		**FAF**	**157**	**EDRE**	**180S4**	800	523
	14	7750	108.49	120000	2.3	-		**F**	**157**	**EDRE**	**180S4**	760	522
	15	6890	96.53*	120000	2.6	-		**FF**	**157**	**EDRE**	**180S4**	870	523
	17	6130	85.80*	117500	2.9	-							
	19	5600	78.46	115100	3.2	-							
	22	4870	68.28*	111400	3.7	-							
	9.6	10900	153.67*	90000	1.10	-							
	12	8950	125.37	90000	1.35	-		**FA**	**127**	**EDRE**	**180S4**	485	519
	13	8170	114.34	90000	1.45	-		**FAF**	**127**	**EDRE**	**180S4**	520	518
	15	7070	98.95	90000	1.70	-		**F**	**127**	**EDRE**	**180S4**	520	517
	17	6230	87.31*	90000	1.90	-		**FF**	**127**	**EDRE**	**180S4**	570	518
	19	5380	75.41*	88300	2.2	-							
	14	7240	101.38*	51000	1.05	-							
	16	6600	92.47*	52600	1.15	-							
	18	6000	83.99	54000	1.30	-		**FA**	**107**	**EDRE**	**180S4**	345	514
	20	5320	74.52	55600	1.45	-		**FAF**	**107**	**EDRE**	**180S4**	365	513
	22	4830	67.62	56700	1.60	-		**F**	**107**	**EDRE**	**180S4**	360	512
	25	4150	58.12*	56200	1.85	-		**FF**	**107**	**EDRE**	**180S4**	385	513
	29	3620	50.73	54900	2.1	-							
	34	3070	43.03	53300	2.5	-							
	44	2410	33.79*	50800	3.0	-		**FA**	**107**	**EDRE**	**180S4**	335	514
	53	1970	27.57	48500	3.5	-		**FAF**	**107**	**EDRE**	**180S4**	355	513
	58	1790	25.14	47500	3.8	-		**F**	**107**	**EDRE**	**180S4**	350	512
								FF	**107**	**EDRE**	**180S4**	375	513

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
11.0	**28**	3750	52.49	27100	1.05	-		**FA**	**97**	**EDRE**	**180S4**	270	509
	33	3170	44.49	27000	1.20	-		**FAF**	**97**	**EDRE**	**180S4**	290	508
	38	2770	38.86	26700	1.30	-		**F**	**97**	**EDRE**	**180S4**	275	507
	45	2320	32.50	26200	1.45	-		**FF**	**97**	**EDRE**	**180S4**	310	508
	43	2420	33.91	26300	1.75	-							
	48	2170	30.39	25900	2.00	-		**FA**	**97**	**EDRE**	**180S4**	260	509
	54	1960	27.44*	25600	2.2	-		**FAF**	**97**	**EDRE**	**180S4**	285	508
	59	1780	24.92	25200	2.4	-		**F**	**97**	**EDRE**	**180S4**	270	507
	66	1580	22.11	24600	2.6	-		**FF**	**97**	**EDRE**	**180S4**	300	508
	55	1890	26.50	15000	1.40	-							
	62	1690	23.68	15000	1.55	-							
	69	1520	21.32*	14900	1.65	-		**FA**	**87**	**EDRE**	**180S4**	200	504
	76	1370	19.31	14800	1.80	-		**FAF**	**87**	**EDRE**	**180S4**	215	503
	86	1220	17.12	14600	2.00	-		**F**	**87**	**EDRE**	**180S4**	205	502
	95	1100	15.48	14400	2.2	-		**FF**	**87**	**EDRE**	**180S4**	220	503
	112	930	13.12*	14000	2.6	-							
15.0	**7.5**	17800	197	100700	1.00	-		**FA**	**157R97**	**EDRE**	**180M4**	890	527
								FAF	**157R97**	**EDRE**	**180M4**	940	527
								F	**157R97**	**EDRE**	**180M4**	910	527
								FF	**157R97**	**EDRE**	**180M4**	1010	527
	8.2	17300	178.20*	102100	1.05	-							
	9.0	15800	162.96	106000	1.15	-							
	10	13800	141.80*	110700	1.30	-							
	12	12100	125.14	113800	1.50	-		**FA**	**157**	**EDRE**	**180M4**	760	524
	14	10500	108.49	116400	1.70	-		**FAF**	**157**	**EDRE**	**180M4**	820	523
	15	9400	96.53*	115700	1.90	-		**F**	**157**	**EDRE**	**180M4**	780	522
	17	8360	85.80*	113100	2.2	-		**FF**	**157**	**EDRE**	**180M4**	880	523
	19	7640	78.46	111100	2.4	-							
	22	6650	68.28*	107900	2.7	-							
	24	5870	60.25	105000	3.1	-							
	13	11100	114.34	88300	1.10	-							
	15	9640	98.95	86900	1.25	-		**FA**	**127**	**EDRE**	**180M4**	500	519
	17	8500	87.31*	85500	1.40	-		**FAF**	**127**	**EDRE**	**180M4**	540	518
	19	7340	75.41*	83700	1.65	-		**F**	**127**	**EDRE**	**180M4**	540	517
	21	6820	70.07	82700	1.75	-		**FF**	**127**	**EDRE**	**180M4**	580	518
	20	7260	74.52	50900	1.05	-							
	22	6580	67.62	52600	1.15	-							
	25	5660	58.12*	52200	1.35	-		**FA**	**107**	**EDRE**	**180M4**	360	514
	29	4940	50.73	51400	1.55	-		**FAF**	**107**	**EDRE**	**180M4**	380	513
	34	4190	43.03	50300	1.85	-		**F**	**107**	**EDRE**	**180M4**	375	512
	39	3660	37.61	49300	2.1	-		**FF**	**107**	**EDRE**	**180M4**	405	513
	46	3090	31.80	47900	2.3	-							
	44	3290	33.79*	48400	2.2	-		**FA**	**107**	**EDRE**	**180M4**	350	514
	53	2680	27.57	46600	2.6	-		**FAF**	**107**	**EDRE**	**180M4**	370	513
	58	2450	25.14	45800	2.8	-		**F**	**107**	**EDRE**	**180M4**	365	512
	68	2120	21.76*	44500	3.2	-		**FF**	**107**	**EDRE**	**180M4**	395	513
	45	3160	32.50	23200	1.05	-		**FA**	**97**	**EDRE**	**180M4**	285	509
								FAF	**97**	**EDRE**	**180M4**	305	508
								F	**97**	**EDRE**	**180M4**	290	507
								FF	**97**	**EDRE**	**180M4**	325	508

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
15.0	**43**	3300	33.91	23200	1.30	-							
	48	2960	30.39	23200	1.45	-							
	54	2670	27.44*	23100	1.60	-							
	59	2420	24.92	22900	1.75	-	**FA**	**97**	**EDRE**	**180M4**	280	509
	66	2150	22.11	22600	1.95	-	**FAF**	**97**	**EDRE**	**180M4**	300	508
	73	1950	20.07	22400	2.1	-	**F**	**97**	**EDRE**	**180M4**	285	507
	85	1680	17.25*	21900	2.4	-	**FF**	**97**	**EDRE**	**180M4**	320	508
	98	1460	15.06	21400	2.7	-						
	115	1240	12.77	20800	3.0	-						
	132	1080	11.16	20200	3.3	-						
	55	2580	26.50	12400	1.05	-						
	62	2300	23.68	12600	1.15	-						
	69	2070	21.32*	12700	1.25	-						
	76	1880	19.31	12800	1.30	-						
	86	1660	17.12	12900	1.45	-						
	95	1500	15.48	12800	1.60	-						
	112	1270	13.12*	12700	1.90	-	**FA**	**87**	**EDRE**	**180M4**	215	504
	128	1110	11.46	12600	2.2	-	**FAF**	**87**	**EDRE**	**180M4**	230	503
	153	930	9.58	12300	2.6	-	**F**	**87**	**EDRE**	**180M4**	225	502
	177	800	8.29	11700	1.85	-	**FF**	**87**	**EDRE**	**180M4**	240	503
	200	715	7.35	11500	2.1	-						
	221	645	6.65	11300	2.2	-						
	261	545	5.63	11000	2.5	-						
	299	475	4.92	10700	2.8	-						
	357	400	4.12	10300	3.0	-						
18.5	**10**	17000	141.80*	103000	1.05	-						
	12	15000	125.14	108000	1.20	-						
	14	13000	108.49	112200	1.40	-						
	15	11600	96.53*	111300	1.55	-	**FA**	**157**	**EDRE**	**180L4**	770	524
	17	10300	85.80*	109200	1.75	-	**FAF**	**157**	**EDRE**	**180L4**	830	523
	19	9420	78.46	107500	1.90	-	**F**	**157**	**EDRE**	**180L4**	790	522
	22	8200	68.28*	104800	2.2	-	**FF**	**157**	**EDRE**	**180L4**	900	523
	24	7240	60.25	102200	2.5	-						
	28	6270	52.24	99300	2.9	-						
	15	11800	98.95	81700	1.00	-						
	17	10400	87.31*	80900	1.15	-						
	19	9060	75.41*	79700	1.30	-	**FA**	**127**	**EDRE**	**180L4**	510	519
	21	8420	70.07	79000	1.40	-	**FAF**	**127**	**EDRE**	**180L4**	550	518
	23	7680	63.91	78100	1.55	-	**F**	**127**	**EDRE**	**180L4**	550	517
	27	6640	55.31	76400	1.75	-	**FF**	**127**	**EDRE**	**180L4**	600	518
	30	5860	48.80	74800	1.90	-						
	25	6980	58.12*	48700	1.10	-						
	29	6090	50.73	48400	1.25	-	**FA**	**107**	**EDRE**	**180L4**	370	514
	34	5170	43.03	47700	1.50	-	**FAF**	**107**	**EDRE**	**180L4**	390	513
	39	4520	37.61	47000	1.70	-	**F**	**107**	**EDRE**	**180L4**	385	512
	46	3820	31.80	46000	1.90	-	**FF**	**107**	**EDRE**	**180L4**	415	513
	44	4060	33.79*	46400	1.80	-	**FA**	**107**	**EDRE**	**180L4**	360	514
	53	3310	27.57	45000	2.1	-	**FAF**	**107**	**EDRE**	**180L4**	380	513
	58	3020	25.14	44300	2.2	-	**F**	**107**	**EDRE**	**180L4**	375	512
	68	2610	21.76*	43100	2.6	-	**FF**	**107**	**EDRE**	**180L4**	405	513
	54	3290	27.44*	20900	1.30	-						
	59	2990	24.92	20900	1.45	-						
	66	2650	22.11	20900	1.55	-	**FA**	**97**	**EDRE**	**180L4**	290	509
	73	2410	20.07	20800	1.70	-	**FAF**	**97**	**EDRE**	**180L4**	310	508
	85	2070	17.25*	20500	1.95	-	**F**	**97**	**EDRE**	**180L4**	295	507
	98	1800	15.06	20200	2.2	-	**FF**	**97**	**EDRE**	**180L4**	330	508
	115	1530	12.77	19700	2.5	-						
	132	1340	11.16	19300	2.7	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
18.5	**69**	2560	21.32*	10900	1.00	-								
	76	2320	19.31	11100	1.05	-								
	86	2050	17.12	11400	1.20	-								
	95	1860	15.48	11500	1.30	-								
	112	1570	13.12*	11600	1.55	-								
	128	1370	11.46	11600	1.75	-		**FA**	**87**		**EDRE**	**180L4**	230	504
	153	1150	9.58	11500	2.1	-		**FAF**	**87**		**EDRE**	**180L4**	240	503
	177	990	8.29	10900	1.50	-		**F**	**87**		**EDRE**	**180L4**	235	502
	200	880	7.35	10800	1.70	-		**FF**	**87**		**EDRE**	**180L4**	250	503
	221	795	6.65	10700	1.85	-								
	261	675	5.63	10400	2.0	-								
	299	590	4.92	10200	2.2	-								
	357	490	4.12	9900	2.5	-								
22	**12**	17700	125.14	101000	1.00	-								
	14	15400	108.49	107200	1.15	-								
	15	13700	96.53*	106800	1.30	-								
	17	12100	85.80*	105200	1.50	-								
	19	11100	78.46	103800	1.60	-		**FA**	**157**		**EDRE**	**200L4**	870	524
	22	9690	68.28*	101600	1.85	-		**FAF**	**157**		**EDRE**	**200L4**	930	523
	25	8550	60.25	99400	2.1	-		**F**	**157**		**EDRE**	**200L4**	890	522
	28	7410	52.24	96800	2.4	-		**FF**	**157**		**EDRE**	**200L4**	1000	523
	32	6590	46.48*	94600	2.7	-								
	37	5680	40.06	91700	3.2	-								
	45	4620	32.55	87600	3.7	-								
	20	10700	75.41*	75700	1.10	-								
	21	9940	70.07	75300	1.20	-		**FA**	**127**		**EDRE**	**200L4**	620	519
	23	9070	63.91	74600	1.30	-		**FAF**	**127**		**EDRE**	**200L4**	660	518
	27	7850	55.31	73400	1.50	-		**F**	**127**		**EDRE**	**200L4**	650	517
	30	6920	48.80	72200	1.60	-		**FF**	**127**		**EDRE**	**200L4**	700	518
	35	5980	42.15	70600	1.80	-								
	29	7200	50.73	45300	1.05	-		**FA**	**107**		**EDRE**	**200L4**	475	514
	34	6100	43.03	45100	1.25	-		**FAF**	**107**		**EDRE**	**200L4**	495	513
	39	5330	37.61	44700	1.40	-		**F**	**107**		**EDRE**	**200L4**	490	512
	47	4510	31.80	44000	1.60	-		**FF**	**107**		**EDRE**	**200L4**	520	513
	44	4790	33.79*	44300	1.50	-								
	54	3910	27.57	43300	1.75	-		**FA**	**107**		**EDRE**	**200L4**	465	514
	59	3560	25.14	42700	1.90	-		**FAF**	**107**		**EDRE**	**200L4**	485	513
	68	3080	21.76*	41800	2.2	-		**F**	**107**		**EDRE**	**200L4**	480	512
	77	2720	19.20*	40900	2.5	-		**FF**	**107**		**EDRE**	**200L4**	510	513
	54	3890	27.44*	18700	1.10	-	X							
	59	3530	24.92	18900	1.20	-	X							
	67	3130	22.11	19100	1.30	-	X	**FA**	**97**		**EDRE**	**200L4**	395	509
	74	2840	20.07	19200	1.45	-	X	**FAF**	**97**		**EDRE**	**200L4**	415	508
	86	2440	17.25*	19100	1.65	-	X	**F**	**97**		**EDRE**	**200L4**	400	507
	98	2130	15.06	19000	1.85	-	X	**FF**	**97**		**EDRE**	**200L4**	435	508
	116	1810	12.77	18700	2.1	-	X							
	133	1580	11.16	18400	2.3	-	X							
30	**17**	16600	85.80*	96400	1.10	-								
	19	15100	78.46	95800	1.20	-								
	22	13200	68.28*	94500	1.35	-		**FA**	**157**		**EDRE**	**225S4**	910	524
	25	11600	60.25	93200	1.55	-		**FAF**	**157**		**EDRE**	**225S4**	970	523
	28	10100	52.24	91400	1.80	-		**F**	**157**		**EDRE**	**225S4**	930	522
	32	8990	46.48*	89800	2.0	-		**FF**	**157**		**EDRE**	**225S4**	1030	523
	37	7750	40.06	87600	2.3	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
30	**27**	10700	55.31	66700	1.10	-							
	30	9440	48.80	66300	1.20	-		**FA**	**127**	**EDRE**	**225S4**	650	519
	35	8150	42.15	65500	1.30	-		**FAF**	**127**	**EDRE**	**225S4**	690	518
	40	7210	37.28	64600	1.45	-		**F**	**127**	**EDRE**	**225S4**	690	517
	47	6060	31.33	63200	1.65	-		**FF**	**127**	**EDRE**	**225S4**	730	518
	58	4890	25.30	61100	1.95	-							
	55	5200	26.86	61700	1.65	-		**FA**	**127**	**EDRE**	**225S4**	640	519
	60	4750	24.57	60800	1.80	-		**FAF**	**127**	**EDRE**	**225S4**	680	518
	69	4130	21.38	59300	2.2	-		**F**	**127**	**EDRE**	**225S4**	680	517
	78	3650	18.87	57900	2.5	-		**FF**	**127**	**EDRE**	**225S4**	720	518
	39	7280	37.61	39600	1.05	-		**FA**	**107**	**EDRE**	**225S4**	510	514
	47	6150	31.80	39700	1.15	-		**FAF**	**107**	**EDRE**	**225S4**	530	513
								F	**107**	**EDRE**	**225S4**	520	512
								FF	**107**	**EDRE**	**225S4**	550	513
	54	5330	27.57	39500	1.30	-							
	59	4860	25.14	39300	1.40	-							
	68	4210	21.76*	38800	1.60	-		**FA**	**107**	**EDRE**	**225S4**	500	514
	77	3710	19.20*	38300	1.80	-		**FAF**	**107**	**EDRE**	**225S4**	520	513
	89	3200	16.58	37500	2.1	-		**F**	**107**	**EDRE**	**225S4**	510	512
	101	2830	14.67	36900	2.3	-		**FF**	**107**	**EDRE**	**225S4**	540	513
	120	2380	12.33	35800	2.7	-							
	149	1920	9.96	34400	3.3	-							
	74	3880	20.07	15500	1.05	-	X						
	86	3330	17.25*	16000	1.20	-	X						
	98	2910	15.06	16300	1.35	-	X						
	116	2470	12.77	16400	1.55	-	X	**FA**	**97**	**EDRE**	**225S4**	425	509
	133	2160	11.16	16400	1.70	-	X	**FAF**	**97**	**EDRE**	**225S4**	450	508
	163	1750	9.06	15400	1.30	-	X	**F**	**97**	**EDRE**	**225S4**	435	507
	180	1590	8.22	15300	1.35	-	X	**FF**	**97**	**EDRE**	**225S4**	465	508
	209	1360	7.07	15100	1.50	-	X						
	240	1190	6.17	14900	1.65	-	X						
	283	1010	5.23	14600	1.85	-	X						
	324	880	4.57	14300	2.0	-	X						
37	**22**	16200	68.28*	88400	1.10	-							
	25	14300	60.25	87800	1.25	-							
	28	12400	52.24	86700	1.45	-		**FA**	**157**	**EDRE**	**225M4**	930	524
	32	11000	46.48*	85600	1.60	-		**FAF**	**157**	**EDRE**	**225M4**	980	523
	37	9560	40.06	84000	1.90	-		**F**	**157**	**EDRE**	**225M4**	950	522
	45	7770	32.55	81300	2.2	-		**FF**	**157**	**EDRE**	**225M4**	1050	523
	54	6580	27.60	79000	2.5	-							
	35	10000	42.15	61000	1.05	-		**FA**	**127**	**EDRE**	**225M4**	670	519
	40	8890	37.28	60700	1.15	-		**FAF**	**127**	**EDRE**	**225M4**	710	518
	47	7470	31.33	59900	1.35	-		**F**	**127**	**EDRE**	**225M4**	710	517
	58	6040	25.30	58400	1.55	-		**FF**	**127**	**EDRE**	**225M4**	750	518
	55	6410	26.86	58900	1.35	-							
	60	5860	24.57	58200	1.45	-							
	69	5100	21.38	57100	1.80	-							
	78	4500	18.87	55900	2.0	-		**FA**	**127**	**EDRE**	**225M4**	660	519
	90	3900	16.36	54500	2.3	-		**FAF**	**127**	**EDRE**	**225M4**	700	518
	102	3470	14.55	53300	2.6	-		**F**	**127**	**EDRE**	**225M4**	700	517
	118	2990	12.54	51800	3.0	-		**FF**	**127**	**EDRE**	**225M4**	740	518
	145	2430	10.19	49500	3.7	-							
	167	2110	8.86	47700	3.2	-							
	188	1880	7.88	46400	3.2	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
37	**54**	6580	27.57	36200	1.05	-								
	59	6000	25.14	36300	1.15	-								
	68	5190	21.76*	36200	1.30	-								
	77	4580	19.20*	36000	1.45	-								
	89	3950	16.58	35600	1.70	-	**FA**	**107**	**EDRE**	**225M4**	520	514
	101	3500	14.67	35100	1.90	-	**FAF**	**107**	**EDRE**	**225M4**	540	513
	120	2940	12.33	34300	2.2	-	**F**	**107**	**EDRE**	**225M4**	530	512
	149	2370	9.96	33200	2.6	-	**FF**	**107**	**EDRE**	**225M4**	560	513
	153	2310	9.69	32400	2.1	-						
	177	1990	8.37	31700	2.4	-						
	200	1760	7.40	31000	2.6	-						
	238	1480	6.22	30000	3.1	-						
45	**25**	17400	60.25	81600	1.05	-						
	28	15100	52.24	81300	1.20	-	**FA**	**157**	**EDRE**	**225M4**	930	524
	32	13400	46.48*	80800	1.35	-	**FAF**	**157**	**EDRE**	**225M4**	980	523
	37	11600	40.06	79800	1.55	-	**F**	**157**	**EDRE**	**225M4**	950	522
	45	9450	32.55	78000	1.80	-	**FF**	**157**	**EDRE**	**225M4**	1050	523
	54	8010	27.60	76200	2.1	-						
	47	9090	31.33	56100	1.10	-	**FA**	**127**	**EDRE**	**225M4**	670	519
	58	7340	25.30	55400	1.30	-	**FAF**	**127**	**EDRE**	**225M4**	710	518
							F	**127**	**EDRE**	**225M4**	710	517
							FF	**127**	**EDRE**	**225M4**	750	518
	55	7800	26.86	55600	1.10	-						
	60	7130	24.57	55300	1.20	-						
	69	6200	21.38	54500	1.45	-						
	78	5470	18.87	53600	1.65	-						
	90	4740	16.36	52600	1.90	-	**FA**	**127**	**EDRE**	**225M4**	660	519
	102	4220	14.55	51600	2.1	-	**FAF**	**127**	**EDRE**	**225M4**	700	518
	118	3640	12.54	50300	2.5	-	**F**	**127**	**EDRE**	**225M4**	700	517
	145	2950	10.19	48300	3.0	-	**FF**	**127**	**EDRE**	**225M4**	740	518
	167	2570	8.86	46500	2.6	-						
	188	2280	7.88	45400	2.6	-						
	218	1970	6.80	44000	3.2	-						
	268	1600	5.52	41900	3.7	-						
	68	6310	21.76*	33200	1.05	-						
	77	5570	19.20*	33300	1.20	-						
	89	4810	16.58	33300	1.40	-						
	101	4250	14.67	33100	1.55	-	**FA**	**107**	**EDRE**	**225M4**	520	514
	120	3570	12.33	32600	1.80	-	**FAF**	**107**	**EDRE**	**225M4**	540	513
	149	2890	9.96	31900	2.2	-	**F**	**107**	**EDRE**	**225M4**	530	512
	153	2810	9.69	30900	1.75	-	**FF**	**107**	**EDRE**	**225M4**	560	513
	177	2430	8.37	30400	1.95	-						
	200	2140	7.40	29900	2.1	-						
	238	1800	6.22	29000	2.6	-						
55	**32**	16500	46.48*	74800	1.10	-	**FA**	**157**	**DV**	**250M4**	1070	524
	37	14200	40.06	74700	1.25	-	**FAF**	**157**	**DV**	**250M4**	1130	523
	45	11500	32.55	73800	1.50	-	**F**	**157**	**DV**	**250M4**	1090	522
	53	9820	27.60	72600	1.70	-	**FF**	**157**	**DV**	**250M4**	1200	523
	52	10100	28.60*	72900	1.55	-						
	58	9050	25.43	71900	1.65	-	**FA**	**157**	**DV**	**250M4**	1060	524
	67	7890	22.16	70600	2.0	-	**FAF**	**157**	**DV**	**250M4**	1120	523
	75	7030	19.77	69400	2.2	-	**F**	**157**	**DV**	**250M4**	1080	522
	88	6000	16.85	67600	2.6	-	**FF**	**157**	**DV**	**250M4**	1190	523
	58	9010	25.30	51600	1.05	M2	**FA**	**127**	**DV**	**250M4**	810	519
							FAF	**127**	**DV**	**250M4**	850	518
							F	**127**	**DV**	**250M4**	840	517
							FF	**127**	**DV**	**250M4**	890	518

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
55	**69**	7610	21.38	51300	1.20	-								
	78	6710	18.87	50800	1.35	-								
	90	5820	16.36	50100	1.55	-								
	101	5180	14.55	49400	1.75	-								
	118	4460	12.54	48400	2.0	-	**FA**	**127**	**DV**	**250M4**	800	519		
	145	3620	10.19	46800	2.5	-	**FAF**	**127**	**DV**	**250M4**	830	518		
	166	3150	8.86	45100	2.1	-	**F**	**127**	**DV**	**250M4**	830	517		
	187	2800	7.88	44200	2.1	-	**FF**	**127**	**DV**	**250M4**	880	518		
	217	2410	6.80	42900	2.6	-								
	267	1960	5.52	41100	3.0	-								
	315	1660	4.68	39600	3.4	M2								
75	**45**	15700	32.55	65400	1.10	-	**FA**	**157**	**DV**	**280S4**	1200	524		
	54	13300	27.60	65500	1.25	-	**FAF**	**157**	**DV**	**280S4**	1260	523		
							F	**157**	**DV**	**280S4**	1220	522		
							FF	**157**	**DV**	**280S4**	1330	523		
	52	13800	28.60*	65500	1.15	-								
	58	12300	25.43	65400	1.20	-								
	67	10700	22.16	64900	1.45	-	**FA**	**157**	**DV**	**280S4**	1190	524		
	75	9560	19.77	64300	1.65	-	**FAF**	**157**	**DV**	**280S4**	1250	523		
	88	8150	16.85	63200	1.90	-	**F**	**157**	**DV**	**280S4**	1220	522		
	106	6750	13.96	61600	2.3	-	**FF**	**157**	**DV**	**280S4**	1320	523		
	124	5760	11.92	60100	2.7	-								
	90	7910	16.36	45200	1.15	-								
	102	7040	14.55	45000	1.30	-								
	118	6060	12.54	44600	1.50	-								
	145	4930	10.19	43700	1.85	-	**FA**	**127**	**DV**	**280S4**	940	519		
	167	4280	8.86	42200	1.55	-	**FAF**	**127**	**DV**	**280S4**	970	518		
	188	3810	7.88	41600	1.55	-	**F**	**127**	**DV**	**280S4**	970	517		
	218	3280	6.80	40700	1.95	-	**FF**	**127**	**DV**	**280S4**	1020	518		
	268	2670	5.52	39300	2.2	-								
	316	2260	4.68	38100	2.5	-								

9.3 Selection tables for helical-bevel gearmotors /3GD T3

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.12	**0.08**	10800	17550	80300	1.20	-	X						
	0.09	9890	16006	80700	1.30	-	X						
	0.09	9260	14975	81000	1.40	-	X	**K**	**127R77**	**DR**	**63S4**	470	582
	0.11	7690	12440	81600	1.70	-	X	**KF**	**127R77**	**DR**	**63S4**	510	582
	0.13	6750	10915	81900	1.95	-	X	**KA**	**127R77**	**DR**	**63S4**	440	582
	0.14	6070	9819	82000	2.1	-	X	**KAF**	**127R77**	**DR**	**63S4**	480	582
	0.16	5180	8443	82300	2.5	-							
	0.18	4620	7482	82400	2.8	-							
	0.11	7550	12211	65000	1.05	-							
	0.13	6600	10677	65000	1.20	-	X						
	0.14	5890	9524	65000	1.35	-	X						
	0.17	5150	8328	65000	1.55	-	X	**K**	**107R77**	**DR**	**63S4**	310	582
	0.19	4490	7270	65000	1.80	-	X	**KF**	**107R77**	**DR**	**63S4**	320	582
	0.22	3700	6184	65000	2.2	-	X	**KA**	**107R77**	**DR**	**63S4**	280	582
	0.24	3210	5662	65000	2.5	-	X	**KAF**	**107R77**	**DR**	**63S4**	305	582
	0.27	2910	5138	65000	2.7	-	X						
	0.32	2670	4359	65000	3.0	-							
	0.23	4000	6027	40000	1.05	-							
	0.26	3650	5391	40000	1.20	-	X						
	0.30	3020	4669	40000	1.40	-	X	**K**	**97R57**	**DR**	**63S4**	180	582
	0.34	2730	4082	40000	1.55	-	X	**KF**	**97R57**	**DR**	**63S4**	200	582
	0.39	2370	3583	40000	1.80	-	X	**KA**	**97R57**	**DR**	**63S4**	160	582
	0.44	2090	3108	40000	2.0	-		**KAF**	**97R57**	**DR**	**63S4**	185	582
	0.50	1770	2757	40000	2.4	-							
	0.57	1650	2419	40000	2.6	-							
	0.65	1420	2123	40000	3.0	-							
	0.74	1270	1856	40000	3.4	-		**K**	**97R57**	**DR**	**63S4**	180	582
	0.85	1040	1625	40000	4.1	-		**KF**	**97R57**	**DR**	**63S4**	200	582
	0.96	890	1430	40000	4.8	-		**KA**	**97R57**	**DR**	**63S4**	160	582
	1.1	860	1261	40000	5.0	-		**KAF**	**97R57**	**DR**	**63S4**	185	582
	1.2	755	1102	40000	5.7	-							
	0.34	2680	4037	27300	1.00	-							
	0.38	2390	3609	27600	1.15	-		**K**	**87R57**	**DR**	**63S4**	120	582
	0.44	2060	3107	28000	1.30	-	X	**KF**	**87R57**	**DR**	**63S4**	130	582
	0.51	1730	2728	28300	1.55	-	X	**KA**	**87R57**	**DR**	**63S4**	105	582
	0.58	1530	2371	28400	1.75	-	X	**KAF**	**87R57**	**DR**	**63S4**	120	582
	0.66	1430	2088	28500	1.90	-							
	0.74	1270	1854	28600	2.1	-							
	0.83	1130	1657	28700	2.4	-							
	0.97	960	1415	28800	2.8	-		**K**	**87R57**	**DR**	**63S4**	120	582
	1.1	830	1229	28900	3.2	-		**KF**	**87R57**	**DR**	**63S4**	125	582
	1.3	720	1078	28900	3.7	-		**KA**	**87R57**	**DR**	**63S4**	105	582
	1.4	610	951	29000	4.4	-		**KAF**	**87R57**	**DR**	**63S4**	120	582
	1.6	520	837	29000	5.2	-							
	1.9	450	726	29000	5.9	-							
	0.58	1530	2370	15500	1.00	-		**K**	**77R37**	**DR**	**63S4**	69	582
								KF	**77R37**	**DR**	**63S4**	78	582
								KA	**77R37**	**DR**	**63S4**	62	582
								KAF	**77R37**	**DR**	**63S4**	70	582

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.12	**0.67**	1430	2050	16100	1.10	-							
	0.78	1220	1772	17300	1.25	-	X						
	0.91	1040	1514	18100	1.50	-	X						
	0.99	960	1388	18500	1.60	-	X	**K**	**77R37**	**DR**	**63S4**	69	582
	1.1	840	1218	18900	1.85	-	X	**KF**	**77R37**	**DR**	**63S4**	77	582
	1.3	735	1053	19200	2.1	-		**KA**	**77R37**	**DR**	**63S4**	62	582
	1.5	645	924	19400	2.4	-		**KAF**	**77R37**	**DR**	**63S4**	70	582
	1.7	570	815	19600	2.7	-							
	2.0	445	709	19800	3.5	-							
	2.2	390	622	19900	3.9	-							
	1.3	720	1034	11100	1.15	-							
	1.5	600	903	11900	1.35	-	X						
	1.7	570	793	12100	1.45	-	X						
	2.0	455	697	12600	1.80	-	X						
	2.2	400	613	12800	2.0	-	X						
	2.6	350	542	13000	2.3	-		**K**	**67R37**	**DR**	**63S4**	45	582
	2.9	325	471	13000	2.5	-		**KF**	**67R37**	**DR**	**63S4**	51	582
	3.3	270	420	13000	3.0	-		**KA**	**67R37**	**DR**	**63S4**	42	582
	3.8	245	361	13000	3.3	-		**KAF**	**67R37**	**DR**	**63S4**	48	582
	4.3	215	323	13000	3.8	-							
	5.0	181	279	13000	4.5	-							
	5.6	159	246	13000	5.2	-							
	6.4	139	217	13000	5.9	-							
	1.7	545	806	8060	1.10	-							
	2.0	455	699	8620	1.30	-	X						
	2.2	400	615	8870	1.50	-	X						
	2.5	350	544	9080	1.70	-	X						
	2.9	320	473	9190	1.85	-		**K**	**57R37**	**DR**	**63S4**	39	582
	3.3	270	421	9390	2.2	-		**KF**	**57R37**	**DR**	**63S4**	44	582
	3.8	245	362	9470	2.4	-		**KA**	**57R37**	**DR**	**63S4**	37	582
	4.3	215	319	9570	2.8	-		**KAF**	**57R37**	**DR**	**63S4**	43	582
	4.9	181	280	9690	3.3	-							
	5.6	160	246	9760	3.8	-							
	6.4	141	215	9810	4.3	-							
	7.2	126	192	9850	4.8	-							
	2.5	380	552	6170	1.05	-							
	2.8	320	495	6840	1.25	-	X	**K**	**47R37**	**DR**	**63S4**	33	582
	3.2	285	426	7160	1.40	-	X	**KF**	**47R37**	**DR**	**63S4**	36	582
	3.7	240	375	7510	1.65	-	X	**KA**	**47R37**	**DR**	**63S4**	32	582
	4.2	225	327	7620	1.75	-		**KAF**	**47R37**	**DR**	**63S4**	35	582
	4.8	198	289	7780	2.0	-							
	5.2	189	267	5760	1.05	-							
	5.9	163	234	6010	1.20	-		**K**	**37R17**	**DR**	**63S4**	19	582
	6.7	142	205	6180	1.40	-		**KF**	**37R17**	**DR**	**63S4**	21	582
	7.6	124	181	6300	1.60	-		**KA**	**37R17**	**DR**	**63S4**	19	582
	8.6	109	160	6400	1.85	-		**KAF**	**37R17**	**DR**	**63S4**	20	582
	10	91	136	6490	2.2	-							
	9.5	120	144.79*	13000	6.8	-		**K**	**67**	**DR**	**63S4**	34	543
								KF	**67**	**DR**	**63S4**	40	544
								KA	**67**	**DR**	**63S4**	31	545
								KAF	**67**	**DR**	**63S4**	37	544
	9.5	120	145.14*	9870	5.0	-							
	11	103	123.85	9920	5.8	-		**K**	**57**	**DR**	**63S4**	28	538
	13	90	108.29	9950	6.7	-		**KF**	**57**	**DR**	**63S4**	33	539
	13	85	102.88*	9960	7.0	-		**KA**	**57**	**DR**	**63S4**	26	540
	15	75	90.26*	9990	8.0	-		**KAF**	**57**	**DR**	**63S4**	32	539
	18	64	76.56*	10000	9.4	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.12	**10**	110	131.87*	8140	3.6	-		**K**	**47**	**DR**	**63S4**	22	533
	11	101	121.48*	8170	4.0	-		**KF**	**47**	**DR**	**63S4**	26	534
	13	87	104.37	8200	4.6	-		**KA**	**47**	**DR**	**63S4**	22	535
								KAF	**47**	**DR**	**63S4**	24	534
	13	88	106.38	6500	2.3	-							
	14	81	97.81	6530	2.5	-							
	16	70	83.69	6570	2.9	-							
	19	60	72.54	6600	3.3	-							
	20	56	67.80	6610	3.6	-							
	24	49	58.60	6430	4.1	-							
	28	41	49.79	6130	4.8	-							
	31	37	44.46	5930	5.4	-							
	36	32	37.97	5660	6.4	-		**K**	**37**	**DR**	**63S4**	16	528
	39	30	35.57	5550	6.8	-		**KF**	**37**	**DR**	**63S4**	18	529
	46	25	29.96	5270	8.0	-		**KA**	**37**	**DR**	**63S4**	16	530
	48	24	28.83	5200	8.4	-		**KAF**	**37**	**DR**	**63S4**	17	529
	55	21	24.99	4980	9.6	-							
	59	19	23.36	4880	10	-							
	68	17	20.19	4660	11	-							
	80	14	17.15	4430	13	-							
	90	13	15.31	4280	14	-							
	105	11	13.08	4070	15	-							
	114	10	12.14	3970	16	-							
0.18	**0.12**	11500	10915	80000	1.15	-							
	0.13	10300	9819	80500	1.25	-	X						
	0.16	8870	8443	81100	1.45	-	X						
	0.18	7880	7482	81500	1.65	-		**K**	**127R77**	**DR**	**63M4**	470	582
	0.20	6910	6565	81800	1.90	-		**KF**	**127R77**	**DR**	**63M4**	510	582
	0.23	5880	5804	82100	2.2	-		**KA**	**127R77**	**DR**	**63M4**	440	582
	0.26	5210	5027	82300	2.5	-		**KAF**	**127R77**	**DR**	**63M4**	480	582
	0.30	4480	4423	82400	2.9	-							
	0.34	3900	3889	82500	3.3	-							
	0.40	3240	3311	82600	4.0	-							
	0.18	7660	7270	65000	1.05	-							
	0.21	6410	6184	65000	1.25	-	X						
	0.23	5690	5662	65000	1.40	-	X						
	0.26	5160	5138	65000	1.55	-	X	**K**	**107R77**	**DR**	**63M4**	310	582
	0.30	4580	4359	65000	1.75	-	X	**KF**	**107R77**	**DR**	**63M4**	320	582
	0.35	4000	3810	65000	2.0	-		**KA**	**107R77**	**DR**	**63M4**	280	582
	0.39	3400	3358	65000	2.4	-		**KAF**	**107R77**	**DR**	**63M4**	305	582
	0.44	3080	2977	65000	2.6	-							
	0.51	2690	2599	65000	3.0	-							
	0.58	2310	2286	65000	3.4	-							
	0.37	3940	3583	40000	1.10	-		**K**	**97R57**	**DR**	**63M4**	180	582
	0.42	3450	3108	40000	1.25	-	X	**KF**	**97R57**	**DR**	**63M4**	200	582
	0.48	2980	2757	40000	1.45	-	X	**KA**	**97R57**	**DR**	**63M4**	160	582
								KAF	**97R57**	**DR**	**63M4**	185	582
	0.55	2720	2419	40000	1.60	-							
	0.62	2360	2123	40000	1.80	-							
	0.71	2090	1856	40000	2.1	-							
	0.81	1760	1625	40000	2.4	-							
	0.92	1520	1430	40000	2.8	-		**K**	**97R57**	**DR**	**63M4**	180	582
	1.0	1420	1261	40000	3.0	-		**KF**	**97R57**	**DR**	**63M4**	200	582
	1.2	1240	1102	40000	3.5	-		**KA**	**97R57**	**DR**	**63M4**	160	582
	1.4	1080	957	40000	4.0	-		**KAF**	**97R57**	**DR**	**63M4**	185	582
	1.5	970	855	40000	4.4	-							
	1.8	770	743	40000	5.6	-							
	2.0	690	652	40000	6.2	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.18	**0.56**	2560	2371	27400	1.05	-		**K**	**87R57**	**DR**	**63M4**	120	582
								KF	**87R57**	**DR**	**63M4**	130	582
								KA	**87R57**	**DR**	**63M4**	105	582
								KAF	**87R57**	**DR**	**63M4**	120	582
	0.63	2350	2088	27700	1.15	-							
	0.71	2080	1854	28000	1.30	-							
	0.80	1860	1657	28200	1.45	-							
	0.93	1590	1415	28400	1.70	-		**K**	**87R57**	**DR**	**63M4**	120	582
	1.1	1380	1229	28600	1.95	-		**KF**	**87R57**	**DR**	**63M4**	125	582
	1.2	1200	1078	28700	2.2	-		**KA**	**87R57**	**DR**	**63M4**	105	582
	1.4	1030	951	28800	2.6	-		**KAF**	**87R57**	**DR**	**63M4**	120	582
	1.6	890	837	28800	3.0	-							
	1.8	775	726	28900	3.5	-							
	1.1	1380	1218	16500	1.10	-							
	1.2	1200	1053	17400	1.30	-							
	1.4	1050	924	18100	1.45	-							
	1.6	930	815	18600	1.65	-		**K**	**77R37**	**DR**	**63M4**	69	582
	1.9	760	709	19100	2.0	-		**KF**	**77R37**	**DR**	**63M4**	77	582
	2.1	665	622	19300	2.3	-		**KA**	**77R37**	**DR**	**63M4**	62	582
	2.4	600	552	19500	2.6	-		**KAF**	**77R37**	**DR**	**63M4**	70	582
	2.7	525	485	19600	2.9	-							
	3.1	465	428	19800	3.3	-							
	3.6	410	367	19800	3.8	-							
	1.9	760	697	10800	1.05	-							
	2.2	670	613	11500	1.20	-	X						
	2.4	590	542	12000	1.40	-	X	**K**	**67R37**	**DR**	**63M4**	45	582
	2.8	535	471	12200	1.50	-		**KF**	**67R37**	**DR**	**63M4**	51	582
	3.2	455	420	12600	1.80	-		**KA**	**67R37**	**DR**	**63M4**	42	582
	3.6	405	361	12800	2.0	-		**KAF**	**67R37**	**DR**	**63M4**	48	582
	4.1	360	323	12900	2.3	-							
	4.7	300	279	13000	2.7	-							
	2.4	590	544	7690	1.00	-							
	2.8	535	473	8150	1.10	-							
	3.1	455	421	8620	1.30	-							
	3.6	405	362	8840	1.45	-		**K**	**57R37**	**DR**	**63M4**	39	582
	4.1	360	319	9050	1.65	-		**KF**	**57R37**	**DR**	**63M4**	44	582
	4.7	300	280	9270	1.95	-		**KA**	**57R37**	**DR**	**63M4**	37	582
	5.4	265	246	9400	2.2	-		**KAF**	**57R37**	**DR**	**63M4**	43	582
	6.1	235	215	9510	2.5	-							
	6.9	210	192	9600	2.8	-							
	7.9	182	166	9690	3.3	-							
	4.0	365	327	6320	1.10	-							
	4.6	325	289	6800	1.20	-							
	5.2	275	256	7240	1.45	-		**K**	**47R37**	**DR**	**63M4**	33	582
	5.9	250	225	7450	1.60	-		**KF**	**47R37**	**DR**	**63M4**	36	582
	6.7	215	198	7680	1.85	-		**KA**	**47R37**	**DR**	**63M4**	32	582
	7.7	188	171	7840	2.1	-		**KAF**	**47R37**	**DR**	**63M4**	35	582
	8.6	168	153	7930	2.4	-							
	10	147	131	8020	2.7	-							
	8.2	180	160	5860	1.10	-		**K**	**37R17**	**DR**	**63M4**	19	582
	9.7	151	136	6110	1.35	-		**KF**	**37R17**	**DR**	**63M4**	21	582
	10	145	127	6160	1.40	-		**KA**	**37R17**	**DR**	**63M4**	19	582
								KAF	**37R17**	**DR**	**63M4**	20	582
	9.1	188	144.79*	13000	4.4	-		**K**	**67**	**DR**	**63M4**	34	543
	11	161	123.54	13000	5.1	-		**KF**	**67**	**DR**	**63M4**	40	544
	12	141	108.03	13000	5.8	-		**KA**	**67**	**DR**	**63M4**	31	545
	13	134	102.62	13000	6.1	-		**KAF**	**67**	**DR**	**63M4**	37	544

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.18	**9.1**	189	145.14*	9670	3.2	-								
	11	161	123.85	9750	3.7	-		**K**	**57**	**DR**	**63M4**		28	538
	12	141	108.29	9810	4.3	-		**KF**	**57**	**DR**	**63M4**		33	539
	13	134	102.88*	9830	4.5	-		**KA**	**57**	**DR**	**63M4**		26	540
	15	118	90.26*	9880	5.1	-		**KAF**	**57**	**DR**	**63M4**		32	539
	17	100	76.56*	9920	6.0	-								
	10	172	131.87*	7910	2.3	-								
	11	158	121.48*	7970	2.5	-		**K**	**47**	**DR**	**63M4**		22	533
	13	136	104.37	8060	2.9	-		**KF**	**47**	**DR**	**63M4**		26	534
	15	118	90.86	8120	3.4	-		**KA**	**47**	**DR**	**63M4**		22	535
	16	111	85.12*	8140	3.6	-		**KAF**	**47**	**DR**	**63M4**		24	534
	12	138	106.38	6210	1.45	-								
	14	127	97.81	6280	1.55	-								
	16	109	83.69	6400	1.85	-								
	18	94	72.54	6470	2.1	-								
	19	88	67.80	6500	2.3	-								
	23	76	58.60	6280	2.6	-								
	27	65	49.79	6010	3.1	-								
	30	58	44.46	5830	3.4	-								
	35	49	37.97	5580	4.0	-								
	37	46	35.57	5480	4.3	-		**K**	**37**	**DR**	**63M4**		16	528
	44	39	29.96	5220	5.1	-		**KF**	**37**	**DR**	**63M4**		18	529
	46	38	28.83	5160	5.3	-		**KA**	**37**	**DR**	**63M4**		16	530
	53	32	24.99	4950	6.2	-		**KAF**	**37**	**DR**	**63M4**		17	529
	57	30	23.36	4850	6.4	-								
	65	26	20.19	4650	7.0	-								
	77	22	17.15	4430	8.1	-								
	86	20	15.31	4280	8.8	-								
	101	17	13.08	4080	9.7	-								
	109	16	12.14	3980	10	-								
	126	14	10.49	3810	11	-								
	148	12	8.91	3620	12	-								
	166	10	7.96	3490	13	-								
0.25	**0.17**	11900	8443	79800	1.10	-								
	0.19	10600	7482	80400	1.20	-								
	0.21	9320	6565	81000	1.40	-		**K**	**127R77**	**EDRS**	**71S4**		470	582
	0.24	7990	5804	81500	1.65	-		**KF**	**127R77**	**EDRS**	**71S4**		510	582
	0.28	7040	5027	81800	1.85	-		**KA**	**127R77**	**EDRS**	**71S4**		445	582
	0.32	6090	4423	82000	2.1	-		**KAF**	**127R77**	**EDRS**	**71S4**		480	582
	0.36	5320	3889	82200	2.4	-								
	0.42	4440	3311	82400	2.9	-								
	0.25	7740	5662	65000	1.05	-								
	0.27	7030	5138	65000	1.15	-								
	0.32	6170	4359	65000	1.30	-	X							
	0.37	5390	3810	65000	1.50	-	X	**K**	**107R77**	**EDRS**	**71S4**		310	582
	0.42	4620	3358	65000	1.75	-		**KF**	**107R77**	**EDRS**	**71S4**		325	582
	0.47	4170	2977	65000	1.90	-		**KA**	**107R77**	**EDRS**	**71S4**		285	582
	0.54	3640	2599	65000	2.2	-		**KAF**	**107R77**	**EDRS**	**71S4**		310	582
	0.61	3150	2286	65000	2.5	-								
	0.72	2670	1939	65000	3.0	-								
	0.82	2450	1713	65000	3.3	-		**K**	**107R77**	**EDRS**	**71S4**		310	582
	0.90	2220	1554	65000	3.6	-		**KF**	**107R77**	**EDRS**	**71S4**		325	582
	1.0	1910	1336	65000	4.2	-		**KA**	**107R77**	**EDRS**	**71S4**		285	582
								KAF	**107R77**	**EDRS**	**71S4**		305	582
	0.51	4000	2757	40000	1.05	-		**K**	**97R57**	**EDRS**	**71S4**		185	582
								KF	**97R57**	**EDRS**	**71S4**		205	582
								KA	**97R57**	**EDRS**	**71S4**		165	582
								KAF	**97R57**	**EDRS**	**71S4**		190	582

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.25	**0.58**	3610	2419	40000	1.20	-								
	0.66	3140	2123	40000	1.35	-								
	0.76	2770	1856	40000	1.55	-								
	0.86	2360	1625	40000	1.80	-	**K**	**97R57**	**EDRS**	**71S4**	180	582
	0.98	2050	1430	40000	2.1	-	**KF**	**97R57**	**EDRS**	**71S4**	200	582
	1.1	1880	1261	40000	2.3	-	**KA**	**97R57**	**EDRS**	**71S4**	165	582
	1.3	1650	1102	40000	2.6	-	**KAF**	**97R57**	**EDRS**	**71S4**	190	582
	1.5	1440	957	40000	3.0	-						
	1.6	1290	855	40000	3.3	-						
	0.85	2480	1657	27600	1.10	-						
	0.99	2110	1415	27900	1.30	-						
	1.1	1830	1229	28200	1.45	-	**K**	**87R57**	**EDRS**	**71S4**	120	582
	1.3	1590	1078	28400	1.70	-	**KF**	**87R57**	**EDRS**	**71S4**	130	582
	1.5	1380	951	28600	1.95	-	**KA**	**87R57**	**EDRS**	**71S4**	110	582
	1.7	1200	837	28700	2.2	-	**KAF**	**87R57**	**EDRS**	**71S4**	120	582
	1.9	1040	726	28800	2.6	-						
	2.2	920	638	28800	2.9	-						
	1.5	1390	924	16400	1.10	-						
	1.7	1230	815	17300	1.25	-						
	2.0	1020	709	18200	1.50	-						
	2.3	890	622	18700	1.75	-						
	2.5	800	552	19000	1.90	-						
	2.9	705	485	19200	2.2	-	**K**	**77R37**	**EDRS**	**71S4**	72	582
	3.3	620	428	19400	2.5	-	**KF**	**77R37**	**EDRS**	**71S4**	80	582
	3.8	545	367	19600	2.8	-	**KA**	**77R37**	**EDRS**	**71S4**	64	582
	4.3	480	328	19700	3.2	-	**KAF**	**77R37**	**EDRS**	**71S4**	72	582
	4.8	430	290	19800	3.6	-						
	5.6	365	252	19900	4.2	-						
	6.4	320	221	20000	4.8	-						
	7.2	285	195	20000	5.4	-						
	8.0	250	175	20000	6.2	-						
	2.6	790	542	10600	1.05	-						
	3.0	715	471	11200	1.15	-						
	3.4	610	420	11800	1.35	-	**K**	**67R37**	**EDRS**	**71S4**	48	582
	3.9	540	361	12200	1.50	-	**KF**	**67R37**	**EDRS**	**71S4**	53	582
	4.4	480	323	12500	1.70	-	**KA**	**67R37**	**EDRS**	**71S4**	45	582
	5.0	405	279	12800	2.0	-	**KAF**	**67R37**	**EDRS**	**71S4**	51	582
	5.7	355	246	13000	2.3	-						
	6.5	315	217	13000	2.6	-						
	3.9	545	362	8070	1.10	-						
	4.4	475	319	8520	1.25	-						
	5.0	405	280	8850	1.45	-						
	5.7	355	246	9060	1.65	-						
	6.5	315	215	9220	1.90	-	**K**	**57R37**	**EDRS**	**71S4**	42	582
	7.3	280	192	9360	2.1	-	**KF**	**57R37**	**EDRS**	**71S4**	47	582
	8.4	240	166	9490	2.5	-	**KA**	**57R37**	**EDRS**	**71S4**	40	582
	9.7	210	145	9590	2.8	-	**KAF**	**57R37**	**EDRS**	**71S4**	45	582
	11	194	129	9650	3.1	-						
	13	163	111	9750	3.7	-						
	14	144	97	9800	4.2	-						
	7.3	325	192.18	20000	4.4	-	**K**	**77**	**EDRS**	**71S4**	62	548
	7.8	300	179.37	20000	4.8	-	**KF**	**77**	**EDRS**	**71S4**	71	549
	9.1	260	154.02	20000	5.9	-	**KA**	**77**	**EDRS**	**71S4**	55	550
	10	225	135.28	20000	6.7	-	**KAF**	**77**	**EDRS**	**71S4**	63	549
	9.7	245	144.79*	13000	3.3	-	**K**	**67**	**EDRS**	**71S4**	38	543
	11	205	123.54	13000	3.9	-	**KF**	**67**	**EDRS**	**71S4**	43	544
	13	184	108.03	13000	4.5	-	**KA**	**67**	**EDRS**	**71S4**	35	545
	14	174	102.62	13000	4.7	-	**KAF**	**67**	**EDRS**	**71S4**	41	544

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.25	**9.7**	245	145.14*	9480	2.4	-								
	11	210	123.85	9600	2.8	-		**K**	**57**	**EDRS**	**71S4**		32	538
	13	184	108.29	9680	3.3	-		**KF**	**57**	**EDRS**	**71S4**		37	539
	14	175	102.88*	9710	3.4	-		**KA**	**57**	**EDRS**	**71S4**		30	540
	16	153	90.26*	9780	3.9	-		**KAF**	**57**	**EDRS**	**71S4**		36	539
	18	130	76.56*	9840	4.6	-								
	11	220	131.87*	7630	1.80	-								
	12	205	121.48*	7740	1.95	-		**K**	**47**	**EDRS**	**71S4**		26	533
	13	177	104.37	7890	2.3	-		**KF**	**47**	**EDRS**	**71S4**		29	534
	15	154	90.86	7990	2.6	-		**KA**	**47**	**EDRS**	**71S4**		25	535
	17	145	85.12*	8030	2.8	-		**KAF**	**47**	**EDRS**	**71S4**		28	534
	13	181	106.38	5840	1.10	-								
	14	166	97.81	5980	1.20	-								
	17	142	83.69	6180	1.40	-								
	19	123	72.54	6210	1.60	-								
	21	115	67.80	6120	1.75	-								
	24	100	58.60	5920	2.0	-								
	28	85	49.79	5700	2.4	-								
	32	76	44.46	5540	2.6	-								
	37	64	37.97	5320	3.1	-								
	40	60	35.57	5230	3.3	-								
	47	51	29.96	5000	3.9	-		**K**	**37**	**EDRS**	**71S4**		19	528
	49	49	28.83	4940	4.1	-		**KF**	**37**	**EDRS**	**71S4**		21	529
	56	42	24.99	4750	4.7	-		**KA**	**37**	**EDRS**	**71S4**		18	530
	60	40	23.36	4660	4.9	-		**KAF**	**37**	**EDRS**	**71S4**		20	529
	70	34	20.19	4480	5.4	-								
	82	29	17.15	4270	6.2	-								
	92	26	15.31	4130	6.7	-								
	107	22	13.08	3940	7.4	-								
	116	21	12.14	3850	7.7	-								
	134	18	10.49	3690	8.3	-								
	158	15	8.91	3510	9.2	-								
	177	14	7.96	3390	9.8	-								
	207	12	6.80	3230	11	-								
	221	11	6.37	3160	12	-								
0.37	**0.24**	12600	5804	79400	1.05	-								
	0.27	11000	5027	80200	1.15	-		**K**	**127R77**	**EDRS**	**71M4**		475	582
	0.31	9650	4423	80800	1.35	-		**KF**	**127R77**	**EDRS**	**71M4**		520	582
	0.35	8440	3889	81300	1.55	-		**KA**	**127R77**	**EDRS**	**71M4**		445	582
	0.42	7110	3311	81700	1.85	-		**KAF**	**127R77**	**EDRS**	**71M4**		485	582
	0.71	4290	1926	82400	3.0	-		**K**	**127R77**	**EDRS**	**71M4**		475	582
	0.78	3910	1757	82500	3.3	-		**KF**	**127R77**	**EDRS**	**71M4**		520	582
	0.89	3400	1541	82600	3.8	-		**KA**	**127R77**	**EDRS**	**71M4**		445	582
								KAF	**127R77**	**EDRS**	**71M4**		485	582
	0.41	7320	3358	65000	1.10	-								
	0.46	6560	2977	65000	1.20	-	X	**K**	**107R77**	**EDRS**	**71M4**		315	582
	0.53	5720	2599	65000	1.40	-	X	**KF**	**107R77**	**EDRS**	**71M4**		325	582
	0.60	4980	2286	65000	1.60	-		**KA**	**107R77**	**EDRS**	**71M4**		285	582
	0.71	4230	1939	65000	1.90	-		**KAF**	**107R77**	**EDRS**	**71M4**		310	582
	0.80	3840	1713	65000	2.1	-		**K**	**107R77**	**EDRS**	**71M4**		315	582
	0.88	3490	1554	65000	2.3	-		**KF**	**107R77**	**EDRS**	**71M4**		325	582
	1.0	3000	1336	65000	2.7	-		**KA**	**107R77**	**EDRS**	**71M4**		285	582
	1.2	2620	1166	65000	3.0	-		**KAF**	**107R77**	**EDRS**	**71M4**		310	582

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.37	**0.74**	4280	1856	40000	1.00	-								
	0.85	3680	1625	40000	1.15	-								
	0.96	3210	1430	40000	1.35	-								
	1.1	2910	1261	40000	1.50	-	**K**	**97R57**	**EDRS**	**71M4**	185	582
	1.2	2540	1102	40000	1.70	-	**KF**	**97R57**	**EDRS**	**71M4**	205	582
	1.4	2230	957	40000	1.95	-	**KA**	**97R57**	**EDRS**	**71M4**	165	582
	1.6	1990	855	40000	2.2	-	**KAF**	**97R57**	**EDRS**	**71M4**	190	582
	1.8	1650	743	40000	2.6	-						
	2.1	1460	652	40000	2.9	-						
	2.4	1310	573	40000	3.3	-						
	1.3	2470	1078	27600	1.10	-						
	1.4	2150	951	27900	1.25	-						
	1.6	1880	837	28200	1.45	-						
	1.9	1630	726	28400	1.65	-	**K**	**87R57**	**EDRS**	**71M4**	125	582
	2.2	1440	638	28500	1.85	-	**KF**	**87R57**	**EDRS**	**71M4**	135	582
	2.4	1260	562	28600	2.1	-	**KA**	**87R57**	**EDRS**	**71M4**	110	582
	2.9	1060	474	28800	2.5	-	**KAF**	**87R57**	**EDRS**	**71M4**	125	582
	3.2	950	426	28800	2.8	-						
	3.7	830	373	28900	3.2	-						
	2.2	1400	622	16300	1.10	-						
	2.5	1250	552	17200	1.25	-						
	2.8	1100	485	17900	1.40	-						
	3.2	970	428	18400	1.60	-						
	3.8	840	367	18900	1.85	-	**K**	**77R37**	**EDRS**	**71M4**	73	582
	4.2	750	328	19100	2.1	-	**KF**	**77R37**	**EDRS**	**71M4**	81	582
	4.7	665	290	19300	2.3	-	**KA**	**77R37**	**EDRS**	**71M4**	65	582
	5.4	570	252	19600	2.7	-	**KAF**	**77R37**	**EDRS**	**71M4**	73	582
	6.2	500	221	19700	3.1	-						
	7.0	440	195	19800	3.5	-						
	7.9	390	175	19900	3.9	-						
	8.9	345	154	19900	4.5	-						
	4.3	745	323	10900	1.10	-						
	4.9	630	279	11700	1.30	-						
	5.6	555	246	12100	1.45	-	**K**	**67R37**	**EDRS**	**71M4**	49	582
	6.3	495	217	12400	1.65	-	**KF**	**67R37**	**EDRS**	**71M4**	54	582
	7.2	435	191	12700	1.90	-	**KA**	**67R37**	**EDRS**	**71M4**	46	582
	8.3	375	166	12900	2.2	-	**KAF**	**67R37**	**EDRS**	**71M4**	52	582
	9.5	330	144	13000	2.5	-						
	11	280	122	13000	2.9	-						
	5.6	555	246	7960	1.05	-						
	6.4	490	215	8450	1.20	-						
	7.2	435	192	8720	1.35	-	**K**	**57R37**	**EDRS**	**71M4**	43	582
	8.3	375	166	8970	1.60	-	**KF**	**57R37**	**EDRS**	**71M4**	48	582
	9.5	330	145	9160	1.80	-	**KA**	**57R37**	**EDRS**	**71M4**	41	582
	11	295	129	9290	2.0	-	**KAF**	**57R37**	**EDRS**	**71M4**	47	582
	12	250	111	9450	2.4	-						
	14	220	97	9560	2.7	-						
	7.0	505	197.37	29000	5.3	-	**K**	**87**	**EDRS**	**71M4**	100	553
	7.9	445	174.19	29000	6.0	-	**KF**	**87**	**EDRS**	**71M4**	110	554
							KA	**87**	**EDRS**	**71M4**	88	555
							KAF	**87**	**EDRS**	**71M4**	100	554
	7.2	490	192.18	19700	2.9	-						
	7.7	460	179.37	19800	3.2	-	**K**	**77**	**EDRS**	**71M4**	65	548
	8.9	395	154.02	19900	3.9	-	**KF**	**77**	**EDRS**	**71M4**	73	549
	10	345	135.28	19900	4.5	-	**KA**	**77**	**EDRS**	**71M4**	57	550
	11	330	128.52	19900	4.7	-	**KAF**	**77**	**EDRS**	**71M4**	65	549
	12	290	113.56	20000	5.3	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.37	**9.5**	370	144.79*	12900	2.2	-							
	11	315	123.54	13000	2.6	-	**K**	**67**	**EDRS**	**71M4**		40	543
	13	275	108.03	13000	3.0	-	**KF**	**67**	**EDRS**	**71M4**		46	544
	13	260	102.62	13000	3.1	-	**KA**	**67**	**EDRS**	**71M4**		38	545
	15	230	90.04	13000	3.5	-	**KAF**	**67**	**EDRS**	**71M4**		43	544
	18	196	76.37	13000	4.2	-							
	9.5	370	145.14*	9000	1.60	-							
	11	315	123.85	9220	1.90	-							
	13	275	108.29	9370	2.2	-	**K**	**57**	**EDRS**	**71M4**		34	538
	13	260	102.88*	9420	2.3	-	**KF**	**57**	**EDRS**	**71M4**		39	539
	15	230	90.26*	9530	2.6	-	**KA**	**57**	**EDRS**	**71M4**		32	540
	18	197	76.56*	9640	3.0	-	**KAF**	**57**	**EDRS**	**71M4**		38	539
	20	178	69.12	9700	3.4	-							
	10	335	131.87*	6680	1.20	-							
	11	310	121.48*	6950	1.30	-							
	13	265	104.37	7320	1.50	-	**K**	**47**	**EDRS**	**71M4**		29	533
	15	230	90.86	7570	1.70	-	**KF**	**47**	**EDRS**	**71M4**		32	534
	16	215	85.12*	7660	1.85	-	**KA**	**47**	**EDRS**	**71M4**		28	535
	18	193	75.20*	7810	2.1	-	**KAF**	**47**	**EDRS**	**71M4**		31	534
	20	180	69.84	7880	2.2	-							
	22	163	63.30*	7950	2.5	-							
	19	186	72.54	5690	1.05	-							
	20	174	67.80	5640	1.15	-							
	23	151	58.60	5510	1.35	-							
	28	128	49.79	5350	1.55	-							
	31	114	44.46	5230	1.75	-							
	36	98	37.97	5060	2.0	-							
	39	91	35.57	4990	2.2	-							
	46	77	29.96	4800	2.6	-							
	48	74	28.83	4760	2.7	-							
	55	64	24.99	4590	3.1	-	**K**	**37**	**EDRS**	**71M4**		20	528
	59	60	23.36	4520	3.2	-	**KF**	**37**	**EDRS**	**71M4**		22	529
	68	52	20.19	4350	3.6	-	**KA**	**37**	**EDRS**	**71M4**		20	530
	80	44	17.15	4170	4.1	-	**KAF**	**37**	**EDRS**	**71M4**		21	529
	90	39	15.31	4040	4.4	-							
	105	34	13.08	3870	4.9	-							
	113	31	12.14	3790	5.1	-							
	131	27	10.49	3630	5.5	-							
	154	23	8.91	3460	6.1	-							
	173	20	7.96	3350	6.5	-							
	202	18	6.80	3200	7.3	-							
	216	16	6.37	3130	7.7	-							
	256	14	5.36	2980	8.7	-							
0.55	**0.10**	44100	14272	190000	1.15	-							
	0.11	40000	13116	190000	1.25	-	**K**	**187R97**	**EDRS**	**80S4**		1770	582
	0.12	34900	11647	190000	1.45	-	**KH**	**187R97**	**EDRS**	**80S4**		1700	582
	0.19	22600	7343	190000	2.2	-							
	0.14	31800	10264	150000	1.00	-							
	0.16	26600	8628	150000	1.20	-							
	0.22	20200	6562	150000	1.60	-	**K**	**167R97**	**EDRS**	**80S4**		1190	582
	0.26	16000	5355	150000	2.00	-	**KH**	**167R97**	**EDRS**	**80S4**		1150	582
	0.35	12400	4079	150000	2.6	-							
	0.36	12300	3979	114600	1.45	-	**K**	**157R97**	**EDRS**	**80S4**		790	582
	0.46	9430	3051	115400	1.90	-	**KF**	**157R97**	**EDRS**	**80S4**		870	582
							KA	**157R97**	**EDRS**	**80S4**		760	582
							KAF	**157R97**	**EDRS**	**80S4**		810	582

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.55	**0.36**	12500	3889	79400	1.05	-		**K**	**127R77**	**EDRS**	**80S4**	475	582
	0.43	10500	3311	80400	1.25	-		**KF**	**127R77**	**EDRS**	**80S4**	520	582
	0.47	9570	3009	80900	1.35	-		**KA**	**127R77**	**EDRS**	**80S4**	450	582
	0.54	8220	2607	81400	1.60	-		**KAF**	**127R77**	**EDRS**	**80S4**	485	582
	0.73	6350	1926	82000	2.0	-							
	0.81	5790	1757	82100	2.2	-		**K**	**127R77**	**EDRS**	**80S4**	475	582
	0.92	5040	1541	82300	2.6	-		**KF**	**127R77**	**EDRS**	**80S4**	520	582
	1.0	4420	1342	82400	2.9	-		**KA**	**127R77**	**EDRS**	**80S4**	445	582
	1.2	3850	1177	82500	3.4	-		**KAF**	**127R77**	**EDRS**	**80S4**	485	582
	1.4	3370	1025	82600	3.8	-							
	0.62	7390	2286	65000	1.10	-		**K**	**107R77**	**EDRS**	**80S4**	315	582
	0.73	6270	1939	65000	1.30	-		**KF**	**107R77**	**EDRS**	**80S4**	325	582
								KA	**107R77**	**EDRS**	**80S4**	290	582
								KAF	**107R77**	**EDRS**	**80S4**	310	582
	0.83	5670	1713	65000	1.40	-							
	0.91	5140	1554	65000	1.55	-							
	1.1	4420	1336	65000	1.80	-							
	1.2	3860	1166	65000	2.1	-		**K**	**107R77**	**EDRS**	**80S4**	315	582
	1.4	3310	1030	65000	2.4	-		**KF**	**107R77**	**EDRS**	**80S4**	325	582
	1.6	2880	904	65000	2.8	-		**KA**	**107R77**	**EDRS**	**80S4**	285	582
	1.8	2610	793	65000	3.1	-		**KAF**	**107R77**	**EDRS**	**80S4**	310	582
	2.0	2270	696	65000	3.5	-							
	2.3	1960	615	65000	4.1	-							
	1.1	4250	1261	40000	1.00	-							
	1.3	3720	1102	40000	1.15	-							
	1.5	3260	957	40000	1.30	-							
	1.6	2910	855	40000	1.50	-							
	1.9	2440	743	40000	1.75	-		**K**	**97R57**	**EDRS**	**80S4**	185	582
	2.2	2150	652	40000	2.0	-		**KF**	**97R57**	**EDRS**	**80S4**	205	582
	2.5	1930	573	40000	2.2	-		**KA**	**97R57**	**EDRS**	**80S4**	165	582
	2.8	1640	504	40000	2.6	-		**KAF**	**97R57**	**EDRS**	**80S4**	190	582
	3.2	1410	437	40000	3.0	-							
	3.7	1260	382	40000	3.4	-							
	4.6	1020	305	40000	4.2	-							
	2.0	2400	726	27600	1.10	-							
	2.2	2120	638	27900	1.25	-							
	2.5	1860	562	28200	1.45	-							
	3.0	1560	474	28400	1.70	-							
	3.3	1410	426	28500	1.90	-		**K**	**87R57**	**EDRS**	**80S4**	125	582
	3.8	1230	373	28600	2.2	-		**KF**	**87R57**	**EDRS**	**80S4**	135	582
	4.3	1080	330	28700	2.5	-		**KA**	**87R57**	**EDRS**	**80S4**	110	582
	4.8	960	294	28800	2.8	-		**KAF**	**87R57**	**EDRS**	**80S4**	125	582
	5.7	830	250	28900	3.2	-							
	6.0	785	236	28900	3.4	-							
	7.0	665	201	28900	4.0	-							
	3.3	1420	428	16200	1.10	-							
	3.9	1230	367	17300	1.25	-							
	4.3	1100	328	17900	1.40	-							
	4.9	970	290	18400	1.60	-		**K**	**77R37**	**EDRS**	**80S4**	76	582
	5.6	840	252	18900	1.85	-		**KF**	**77R37**	**EDRS**	**80S4**	84	582
	6.4	735	221	19200	2.1	-		**KA**	**77R37**	**EDRS**	**80S4**	68	582
	7.2	650	195	19400	2.4	-		**KAF**	**77R37**	**EDRS**	**80S4**	76	582
	8.1	575	175	19500	2.7	-							
	9.2	510	154	19700	3.0	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.55	**5.8**	810	246	10300	1.00	-							
	6.5	725	217	11000	1.10	-	**K**	**67R37**	**EDRS**	**80S4**		52	582
	7.4	640	191	11700	1.30	-	**KF**	**67R37**	**EDRS**	**80S4**		57	582
	8.5	550	166	12200	1.50	-	**KA**	**67R37**	**EDRS**	**80S4**		49	582
	9.8	485	144	12500	1.70	-	**KAF**	**67R37**	**EDRS**	**80S4**		55	582
	12	410	122	12800	2.00	-							
	8.5	555	166	7990	1.10	-							
	9.8	485	145	8480	1.25	-	**K**	**57R37**	**EDRS**	**80S4**		46	582
	11	435	129	8710	1.35	-	**KF**	**57R37**	**EDRS**	**80S4**		51	582
	13	370	111	9000	1.60	-	**KA**	**57R37**	**EDRS**	**80S4**		44	582
	15	325	97	9180	1.85	-	**KAF**	**57R37**	**EDRS**	**80S4**		49	582
	7.2	730	197.37	28900	3.7	-	**K**	**87**	**EDRS**	**80S4**		100	553
	8.1	645	174.19	28900	4.2	-	**KF**	**87**	**EDRS**	**80S4**		110	554
	8.6	610	164.34*	29000	4.4	-	**KA**	**87**	**EDRS**	**80S4**		89	555
	9.6	545	147.32*	29000	4.9	-	**KAF**	**87**	**EDRS**	**80S4**		100	554
	9.2	570	154.02	19600	2.7	-							
	10	500	135.28	19700	3.1	-	**K**	**77**	**EDRS**	**80S4**		66	548
	11	475	128.52	19700	3.2	-	**KF**	**77**	**EDRS**	**80S4**		74	549
	12	420	113.56	19800	3.7	-	**KA**	**77**	**EDRS**	**80S4**		58	550
	15	360	97.05	19900	4.1	-	**KAF**	**77**	**EDRS**	**80S4**		66	549
	11	455	123.54	12600	1.80	-							
	13	400	108.03	12800	2.0	-	**K**	**67**	**EDRS**	**80S4**		41	543
	14	380	102.62	12900	2.2	-	**KF**	**67**	**EDRS**	**80S4**		47	544
	16	330	90.04	13000	2.4	-	**KA**	**67**	**EDRS**	**80S4**		38	545
	19	280	76.37	13000	2.9	-	**KAF**	**67**	**EDRS**	**80S4**		44	544
	11	455	123.85	8610	1.30	-							
	13	400	108.29	8870	1.50	-							
	14	380	102.88*	8960	1.55	-	**K**	**57**	**EDRS**	**80S4**		35	538
	16	335	90.26*	9150	1.80	-	**KF**	**57**	**EDRS**	**80S4**		40	539
	18	280	76.56*	9340	2.1	-	**KA**	**57**	**EDRS**	**80S4**		33	540
	20	255	69.12	9440	2.3	-	**KAF**	**57**	**EDRS**	**80S4**		39	539
	23	225	60.81*	9550	2.7	-							
	25	210	57.42*	9590	2.8	-							
	14	385	104.37	6100	1.05	-							
	16	335	90.86	6700	1.20	-							
	17	315	85.12*	6910	1.25	-							
	19	275	75.20*	7240	1.45	-	**K**	**47**	**EDRS**	**80S4**		29	533
	20	255	69.84	7390	1.55	-	**KF**	**47**	**EDRS**	**80S4**		33	534
	22	230	63.30*	7560	1.70	-	**KA**	**47**	**EDRS**	**80S4**		28	535
	25	210	56.83	7710	1.90	-	**KAF**	**47**	**EDRS**	**80S4**		31	534
	29	182	48.95*	7860	2.2	-							
	31	171	46.03*	7920	2.3	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.55	**28**	185	49.79	4770	1.10	-							
	32	165	44.46	4710	1.20	-							
	37	141	37.97	4610	1.40	-							
	40	132	35.57	4570	1.50	-							
	47	111	29.96	4440	1.80	-							
	49	107	28.83	4400	1.85	-							
	57	93	24.99	4280	2.2	-							
	61	87	23.36	4220	2.2	-							
	70	75	20.19	4090	2.5	-	**K**	**37**	**EDRS**	**80S4**	23	528
	82	64	17.15	3940	2.8	-	**KF**	**37**	**EDRS**	**80S4**	25	529
	92	57	15.31	3840	3.1	-	**KA**	**37**	**EDRS**	**80S4**	22	530
	108	49	13.08	3690	3.4	-	**KAF**	**37**	**EDRS**	**80S4**	24	529
	117	45	12.14	3620	3.5	-						
	135	39	10.49	3490	3.8	-						
	159	33	8.91	3340	4.2	-						
	178	30	7.96	3230	4.5	-						
	208	25	6.80	3090	5.1	-						
	222	24	6.37	3040	5.3	-						
	264	20	5.36	2890	6.0	-						
	356	15	3.98	2650	7.3	-						
0.75	**0.12**	48600	11647	190000	1.05	-						
	0.20	31300	7343	190000	1.60	-	**K**	**187R97**	**EDRE**	**80M4**	1770	582
	0.21	28500	6747	190000	1.75	-	**KH**	**187R97**	**EDRE**	**80M4**	1700	582
	0.24	25000	5991	190000	2.0	-						
	0.22	28000	6562	150000	1.15	-						
	0.27	22300	5355	150000	1.45	-	**K**	**167R97**	**EDRE**	**80M4**	1190	582
	0.35	17200	4079	150000	1.85	-	**KH**	**167R97**	**EDRE**	**80M4**	1150	582
	0.43	14400	3376	150000	2.2	-						
	0.36	16900	3979	112700	1.05	-	**K**	**157R97**	**EDRE**	**80M4**	800	582
	0.47	13000	3051	114300	1.40	-	**KF**	**157R97**	**EDRE**	**80M4**	870	582
							KA	**157R97**	**EDRE**	**80M4**	760	582
							KAF	**157R97**	**EDRE**	**80M4**	820	582
	0.87	7160	1659	116000	2.5	-	**K**	**157R97**	**EDRE**	**80M4**	790	582
	1.0	5770	1365	116200	3.1	-	**KF**	**157R97**	**EDRE**	**80M4**	870	582
							KA	**157R97**	**EDRE**	**80M4**	760	582
							KAF	**157R97**	**EDRE**	**80M4**	810	582
	0.55	11200	2607	80100	1.15	-	**K**	**127R77**	**EDRE**	**80M4**	480	582
							KF	**127R77**	**EDRE**	**80M4**	520	582
							KA	**127R77**	**EDRE**	**80M4**	450	582
							KAF	**127R77**	**EDRE**	**80M4**	490	582
	0.74	8650	1926	81200	1.50	-						
	0.82	7880	1757	81500	1.65	-						
	0.93	6880	1541	81800	1.90	-	**K**	**127R77**	**EDRE**	**80M4**	475	582
	1.1	6020	1342	82100	2.2	-	**KF**	**127R77**	**EDRE**	**80M4**	520	582
	1.2	5250	1177	82200	2.5	-	**KA**	**127R77**	**EDRE**	**80M4**	450	582
	1.4	4600	1025	82400	2.8	-	**KAF**	**127R77**	**EDRE**	**80M4**	485	582
	1.6	4010	899	82500	3.2	-						
	0.84	7710	1713	65000	1.05	-						
	0.92	7000	1554	65000	1.15	-						
	1.1	6020	1336	65000	1.35	-						
	1.2	5250	1166	65000	1.50	-	**K**	**107R77**	**EDRE**	**80M4**	315	582
	1.4	4540	1030	65000	1.75	-	**KF**	**107R77**	**EDRE**	**80M4**	330	582
	1.6	3960	904	65000	2.0	-	**KA**	**107R77**	**EDRE**	**80M4**	290	582
	1.8	3560	793	65000	2.2	-	**KAF**	**107R77**	**EDRE**	**80M4**	315	582
	2.1	3100	696	65000	2.6	-						
	2.3	2690	615	65000	3.0	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.75	**1.7**	3940	855	40000	1.10	-							
	1.9	3320	743	40000	1.30	-							
	2.2	2930	652	40000	1.45	-							
	2.5	2620	573	40000	1.65	-							
	2.8	2250	504	40000	1.90	-	**K**	**97R57**	**EDRE**	**80M4**		190	582
	3.3	1940	437	40000	2.2	-	**KF**	**97R57**	**EDRE**	**80M4**		210	582
	3.8	1720	382	40000	2.5	-	**KA**	**97R57**	**EDRE**	**80M4**		170	582
	4.7	1390	305	40000	3.1	-	**KAF**	**97R57**	**EDRE**	**80M4**		195	582
	5.6	1170	258	40000	3.7	-							
	6.2	1050	232	40000	4.1	-							
	7.2	890	199	40000	4.8	-							
	2.6	2530	562	27500	1.05	-							
	3.0	2130	474	27900	1.25	-							
	3.4	1910	426	28100	1.40	-							
	3.8	1680	373	28300	1.60	-	**K**	**87R57**	**EDRE**	**80M4**		125	582
	4.4	1470	330	28500	1.85	-	**KF**	**87R57**	**EDRE**	**80M4**		135	582
	4.9	1310	294	28600	2.0	-	**KA**	**87R57**	**EDRE**	**80M4**		115	582
	5.7	1130	250	28700	2.4	-	**KAF**	**87R57**	**EDRE**	**80M4**		130	582
	6.1	1070	236	28700	2.5	-							
	7.1	910	201	28800	3.0	-							
	4.4	1490	328	15800	1.05	-	**K**	**77R37**	**EDRE**	**80M4**		79	582
	5.0	1320	290	16800	1.15	-	**KF**	**77R37**	**EDRE**	**80M4**		87	582
	5.7	1140	252	17700	1.35	-	**KA**	**77R37**	**EDRE**	**80M4**		71	582
	6.5	1000	221	18300	1.55	-	**KAF**	**77R37**	**EDRE**	**80M4**		79	582
	7.3	980	197.37	28800	2.7	-							
	8.2	860	174.19	28800	3.1	-	**K**	**87**	**EDRE**	**80M4**		105	553
	8.7	820	164.34*	28900	3.3	-	**KF**	**87**	**EDRE**	**80M4**		115	554
	9.7	735	147.32*	28900	3.7	-	**KA**	**87**	**EDRE**	**80M4**		92	555
	11	630	126.91*	28900	4.3	-	**KAF**	**87**	**EDRE**	**80M4**		105	554
	9.3	765	154.02	19100	2.0	-							
	11	675	135.28	19300	2.3	-	**K**	**77**	**EDRE**	**80M4**		68	548
	11	640	128.52	19400	2.4	-	**KF**	**77**	**EDRE**	**80M4**		77	549
	13	565	113.56	19600	2.7	-	**KA**	**77**	**EDRE**	**80M4**		61	550
	15	480	97.05	19700	3.0	-	**KAF**	**77**	**EDRE**	**80M4**		69	549
	16	440	88.97	19800	3.2	-							
	12	615	123.54	11800	1.35	-							
	13	535	108.03	12200	1.50	-							
	16	445	90.04	12600	1.80	-	**K**	**67**	**EDRE**	**80M4**		44	543
	19	380	76.37	12900	2.2	-	**KF**	**67**	**EDRE**	**80M4**		49	544
	21	340	68.95	13000	2.4	-	**KA**	**67**	**EDRE**	**80M4**		41	545
	24	300	60.66	13000	2.6	-	**KAF**	**67**	**EDRE**	**80M4**		47	544
	25	285	57.28	13000	2.7	-							
	13	540	108.29	8110	1.10	-							
	14	510	102.88*	8320	1.15	-							
	16	450	90.26*	8660	1.35	-							
	19	380	76.56*	8960	1.55	-	**K**	**57**	**EDRE**	**80M4**		38	538
	21	345	69.12	9110	1.75	-	**KF**	**57**	**EDRE**	**80M4**		43	539
	24	300	60.81*	9270	2.00	-	**KA**	**57**	**EDRE**	**80M4**		36	540
	25	285	57.42*	9340	2.1	-	**KAF**	**57**	**EDRE**	**80M4**		41	539
	29	240	48.89	9490	2.5	-							
	32	220	44.43	9560	2.7	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.75	**19**	375	75.20*	6260	1.05	-							
	21	345	69.84	6570	1.15	-							
	23	315	63.30*	6910	1.25	-							
	25	280	56.83	7200	1.40	-	**K**	**47**	**EDRE**	**80M4**		32	533
	29	240	48.95*	7500	1.65	-	**KF**	**47**	**EDRE**	**80M4**		35	534
	31	225	46.03*	7600	1.75	-	**KA**	**47**	**EDRE**	**80M4**		31	535
	36	198	39.61	7780	2.0	-	**KAF**	**47**	**EDRE**	**80M4**		34	534
	41	177	35.39	7700	2.3	-							
	46	156	31.30	7490	2.6	-							
	38	190	37.97	4140	1.05	-							
	40	178	35.57	4130	1.15	-							
	48	150	29.96	4060	1.35	-							
	50	144	28.83	4040	1.40	-							
	57	125	24.99	3970	1.60	-							
	61	117	23.36	3930	1.65	-							
	71	101	20.19	3840	1.85	-							
	84	86	17.15	3720	2.1	-	**K**	**37**	**EDRE**	**80M4**		25	528
	94	76	15.31	3640	2.3	-	**KF**	**37**	**EDRE**	**80M4**		28	529
	110	65	13.08	3520	2.5	-	**KA**	**37**	**EDRE**	**80M4**		25	530
	118	61	12.14	3460	2.6	-	**KAF**	**37**	**EDRE**	**80M4**		27	529
	137	52	10.49	3350	2.8	-							
	161	44	8.91	3220	3.1	-							
	180	40	7.96	3130	3.4	-							
	211	34	6.80	3000	3.8	-							
	225	32	6.37	2950	4.0	-							
	268	27	5.36	2810	4.5	-							
	361	20	3.98	2590	5.4	-							
1.1	**0.19**	47600	7343	190000	1.05	-							
	0.21	43500	6747	190000	1.15	-							
	0.24	38300	5991	190000	1.30	-	**K**	**187R97**	**EDRE**	**90M4**		1770	582
	0.27	33900	5358	190000	1.45	-	**KH**	**187R97**	**EDRE**	**90M4**		1710	582
	0.29	30200	4817	190000	1.65	-							
	0.32	27400	4370	190000	1.80	-							
	0.30	30300	4788	150000	1.05	-							
	0.35	26300	4079	150000	1.20	-	**K**	**167R97**	**EDRE**	**90M4**		1190	582
	0.42	21900	3376	150000	1.45	-	**KH**	**167R97**	**EDRE**	**90M4**		1150	582
	0.52	17600	2755	150000	1.80	-							
	0.65	14300	2182	150000	2.2	-							
	0.83	11100	1704	150000	2.9	-	**K**	**167R97**	**EDRE**	**90M4**		1190	582
	1.0	9240	1408	150000	3.5	-	**KH**	**167R97**	**EDRE**	**90M4**		1150	582
	1.1	8460	1296	150000	3.8	-							
	0.54	16300	2610	113000	1.10	-	**K**	**157R97**	**EDRE**	**90M4**		800	582
	0.61	14500	2322	113700	1.25	-	**KF**	**157R97**	**EDRE**	**90M4**		880	582
							KA	**157R97**	**EDRE**	**90M4**		760	582
							KAF	**157R97**	**EDRE**	**90M4**		820	582
	0.86	10800	1659	115000	1.65	-							
	1.0	8840	1365	115600	2.0	-	**K**	**157R97**	**EDRE**	**90M4**		800	582
	1.2	7880	1229	115800	2.3	-	**KF**	**157R97**	**EDRE**	**90M4**		870	582
	1.3	7010	1093	116000	2.6	-	**KA**	**157R97**	**EDRE**	**90M4**		760	582
	1.5	6040	942	116200	3.0	-	**KAF**	**157R97**	**EDRE**	**90M4**		820	582
	1.7	5420	854	116300	3.3	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
1.1	**0.74**	12900	1926	79200	1.00	-								
	0.81	11800	1757	79800	1.10	-								
	0.92	10300	1541	80500	1.25	-								
	1.1	9030	1342	81100	1.45	-								
	1.2	7900	1177	81500	1.65	-		**K**	**127R77**	**EDRE**	**90M4**		480	582
	1.4	6900	1025	81800	1.90	-		**KF**	**127R77**	**EDRE**	**90M4**		520	582
	1.6	6030	899	82000	2.2	-		**KA**	**127R77**	**EDRE**	**90M4**		455	582
	1.8	5190	790	82300	2.5	-		**KAF**	**127R77**	**EDRE**	**90M4**		490	582
	2.0	4700	704	82400	2.8	-								
	2.3	4040	610	82500	3.2	-								
	2.6	3650	549	82600	3.6	-								
	3.0	3140	477	82600	4.1	-								
	1.2	7870	1166	65000	1.00	-								
	1.4	6860	1030	65000	1.15	-	X							
	1.6	5990	904	65000	1.35	-								
	1.8	5340	793	65000	1.50	-								
	2.0	4670	696	65000	1.70	-		**K**	**107R77**	**EDRE**	**90M4**		320	582
	2.3	4080	615	65000	1.95	-		**KF**	**107R77**	**EDRE**	**90M4**		335	582
	2.7	3460	522	65000	2.3	-		**KA**	**107R77**	**EDRE**	**90M4**		295	582
	3.1	3040	461	65000	2.6	-		**KAF**	**107R77**	**EDRE**	**90M4**		315	582
	3.5	2680	408	65000	3.0	-								
	3.9	2420	364	65000	3.3	-								
	4.5	2120	318	65000	3.8	-								
	2.5	3920	573	40000	1.10	-								
	2.8	3380	504	40000	1.25	-		**K**	**97R57**	**EDRE**	**90M4**		190	582
	3.2	2920	437	40000	1.45	-		**KF**	**97R57**	**EDRE**	**90M4**		210	582
	3.7	2580	382	40000	1.65	-		**KA**	**97R57**	**EDRE**	**90M4**		175	582
	4.2	2280	342	40000	1.90	-		**KAF**	**97R57**	**EDRE**	**90M4**		200	582
	3.8	2530	373	27500	1.05	-								
	4.3	2210	330	27800	1.20	-		**K**	**87R57**	**EDRE**	**90M4**		130	582
	4.8	1980	294	28100	1.35	-		**KF**	**87R57**	**EDRE**	**90M4**		140	582
	5.7	1700	250	28300	1.60	-		**KA**	**87R57**	**EDRE**	**90M4**		120	582
	6.0	1610	236	28400	1.70	-		**KAF**	**87R57**	**EDRE**	**90M4**		130	582
	7.1	1360	201	28600	1.95	-								
	8.1	1300	176.05*	40000	3.3	-		**K**	**97**	**EDRE**	**90M4**		170	558
	9.3	1130	153.21*	40000	3.8	-		**KF**	**97**	**EDRE**	**90M4**		190	559
	10	1030	140.28	40000	4.1	-		**KA**	**97**	**EDRE**	**90M4**		150	560
	11	910	123.93*	40000	4.7	-		**KAF**	**97**	**EDRE**	**90M4**		175	559
	8.2	1280	174.19	28600	2.1	-								
	8.6	1210	164.34*	28700	2.2	-		**K**	**87**	**EDRE**	**90M4**		110	553
	9.6	1080	147.32*	28700	2.5	-		**KF**	**87**	**EDRE**	**90M4**		120	554
	11	930	126.91*	28800	2.9	-		**KA**	**87**	**EDRE**	**90M4**		96	555
	12	850	115.82	28900	3.2	-		**KAF**	**87**	**EDRE**	**90M4**		110	554
	10	1000	135.28	18300	1.55	-								
	11	950	128.52	18500	1.65	-								
	12	840	113.56	18900	1.85	-		**K**	**77**	**EDRE**	**90M4**		72	548
	15	715	97.05	19200	2.0	-		**KF**	**77**	**EDRE**	**90M4**		81	549
	16	655	88.97	19400	2.2	-		**KA**	**77**	**EDRE**	**90M4**		65	550
	18	575	78.07	19500	2.4	-		**KAF**	**77**	**EDRE**	**90M4**		73	549
	19	545	73.99	19600	2.5	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
1.1	**13**	795	108.03	10500	1.05	-							
	14	755	102.62	10800	1.10	-							
	16	665	90.04	11500	1.25	-							
	19	560	76.37	12100	1.45	-	**K**	**67**	**EDRE**	**90M4**		48	543
	21	510	68.95	12400	1.60	-	**KF**	**67**	**EDRE**	**90M4**		53	544
	23	445	60.66	12600	1.75	-	**KA**	**67**	**EDRE**	**90M4**		45	545
	25	420	57.28	12700	1.80	-	**KAF**	**67**	**EDRE**	**90M4**		51	544
	29	360	48.77	12900	2.1	-							
	32	325	44.32	13000	2.3	-							
	37	280	38.39	13000	2.5	-							
	19	565	76.56*	7900	1.05	-							
	21	510	69.12	8330	1.15	-							
	23	445	60.81*	8660	1.35	-							
	25	420	57.42*	8770	1.40	-							
	29	360	48.89	9040	1.65	-							
	32	325	44.43	9180	1.85	-							
	37	280	38.49	9340	2.1	-							
	40	260	35.70	9420	2.3	-							
	47	220	30.28	9550	2.7	-							
	52	200	27.34	9480	2.9	-							
	59	178	24.05	9190	3.2	-	**K**	**57**	**EDRE**	**90M4**		42	538
	63	168	22.71	9060	3.3	-	**KF**	**57**	**EDRE**	**90M4**		46	539
	73	143	19.34	8690	3.7	-	**KA**	**57**	**EDRE**	**90M4**		40	540
	81	130	17.57	8470	4.0	-	**KAF**	**57**	**EDRE**	**90M4**		45	539
	93	113	15.22	8150	4.4	-							
	107	98	13.25	7850	4.9	-							
	119	88	11.92	7540	4.0	-							
	126	83	11.26	7420	4.1	-							
	148	71	9.59	7090	4.6	-							
	163	64	8.71	6900	5.0	-							
	188	56	7.55	6620	5.6	-							
	216	49	6.57	6360	6.2	-							
	303	35	4.69	5750	7.8	-							
	29	360	48.95*	6420	1.10	-							
	31	340	46.03*	6660	1.15	-							
	36	290	39.61	7120	1.35	-							
	40	260	35.39	7080	1.55	-	**K**	**47**	**EDRE**	**90M4**		36	533
	45	230	31.30	6940	1.75	-	**KF**	**47**	**EDRE**	**90M4**		39	534
	48	215	29.32	6870	1.85	-	**KA**	**47**	**EDRE**	**90M4**		35	535
	55	192	25.91	6720	2.1	-	**KAF**	**47**	**EDRE**	**90M4**		38	534
	65	161	21.81	6490	2.5	-							
	73	145	19.58	6340	2.7	-							
	57	185	24.99	3440	1.10	-							
	61	173	23.36	3440	1.15	-							
	70	149	20.19	3410	1.25	-							
	83	127	17.15	3360	1.40	-							
	93	113	15.31	3320	1.55	-							
	109	97	13.08	3250	1.70	-	**K**	**37**	**EDRE**	**90M4**		29	528
	117	90	12.14	3210	1.75	-	**KF**	**37**	**EDRE**	**90M4**		31	529
	135	78	10.49	3130	1.90	-	**KA**	**37**	**EDRE**	**90M4**		29	530
	159	66	8.91	3040	2.1	-	**KAF**	**37**	**EDRE**	**90M4**		30	529
	178	59	7.96	2960	2.3	-							
	209	50	6.80	2860	2.5	-							
	223	47	6.37	2820	2.7	-							
	265	40	5.36	2710	3.0	-							
	357	29	3.98	2510	3.7	-							

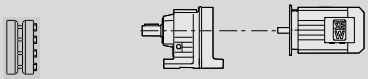
P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
1.5	**0.27**	46900	5358	190000	1.05	-								
	0.30	41800	4817	190000	1.20	-		**K**	**187R97**	**EDRE**	**90L4**		1780	582
	0.33	37900	4370	190000	1.30	-		**KH**	**187R97**	**EDRE**	**90L4**		1710	582
	0.40	32500	3609	190000	1.55	-								
	0.47	27500	3062	190000	1.80	-		**K**	**187R97**	**EDRE**	**90L4**		1770	582
	0.57	22400	2519	190000	2.2	-		**KH**	**187R97**	**EDRE**	**90L4**		1710	582
	0.63	20000	2268	190000	2.5	-								
	0.42	30000	3376	150000	1.05	-		**K**	**167R97**	**EDRE**	**90L4**		1200	582
	0.52	24200	2755	150000	1.30	-		**KH**	**167R97**	**EDRE**	**90L4**		1160	582
	0.66	19600	2182	150000	1.60	-								
	0.84	15300	1704	150000	2.1	-		**K**	**167R97**	**EDRE**	**90L4**		1190	582
	1.0	12600	1408	150000	2.5	-		**KH**	**167R97**	**EDRE**	**90L4**		1150	582
	1.1	11600	1296	150000	2.8	-								
	0.86	14900	1659	113600	1.20	-								
	1.0	12100	1365	114600	1.50	-								
	1.2	10800	1229	115000	1.65	-		**K**	**157R97**	**EDRE**	**90L4**		800	582
	1.3	9680	1093	115400	1.85	-		**KF**	**157R97**	**EDRE**	**90L4**		880	582
	1.5	8350	942	115700	2.2	-		**KA**	**157R97**	**EDRE**	**90L4**		760	582
	1.7	7500	854	115900	2.4	-		**KAF**	**157R97**	**EDRE**	**90L4**		820	582
	2.5	4930	567	116300	3.6	-								
	2.8	4380	504	116400	4.1	-								
	2.7	4750	536	82400	2.7	-		**K**	**127R87**	**EDRE**	**90L4**		500	582
	3.4	3740	418	82500	3.5	-		**KF**	**127R87**	**EDRE**	**90L4**		550	582
	3.9	3290	367	82600	3.9	-		**KA**	**127R87**	**EDRE**	**90L4**		475	582
								KAF	**127R87**	**EDRE**	**90L4**		510	582
	1.1	12300	1342	79600	1.05	-								
	1.2	10700	1177	80300	1.20	-	X							
	1.4	9410	1025	80900	1.40	-								
	1.6	8230	899	81400	1.60	-		**K**	**127R77**	**EDRE**	**90L4**		485	582
	1.8	7130	790	81700	1.80	-		**KF**	**127R77**	**EDRE**	**90L4**		530	582
	2.0	6420	704	81900	2.0	-		**KA**	**127R77**	**EDRE**	**90L4**		455	582
	2.3	5540	610	82200	2.4	-		**KAF**	**127R77**	**EDRE**	**90L4**		495	582
	2.6	5000	549	82300	2.6	-								
	3.0	4300	477	82400	3.0	-								
	3.4	3810	418	82500	3.4	-								
	1.8	7280	793	65000	1.10	-								
	2.1	6370	696	65000	1.25	-	X							
	2.3	5580	615	65000	1.45	-	X	**K**	**107R77**	**EDRE**	**90L4**		325	582
	2.7	4730	522	65000	1.70	-		**KF**	**107R77**	**EDRE**	**90L4**		335	582
	3.1	4160	461	65000	1.90	-		**KA**	**107R77**	**EDRE**	**90L4**		295	582
	3.5	3680	408	65000	2.2	-		**KAF**	**107R77**	**EDRE**	**90L4**		320	582
	3.9	3310	364	65000	2.4	-								
	4.5	2900	318	65000	2.8	-								
	3.3	3980	437	40000	1.10	-								
	3.7	3510	382	40000	1.20	-	X							
	4.2	3110	342	40000	1.40	-		**K**	**97R57**	**EDRE**	**90L4**		195	582
	4.7	2830	305	40000	1.50	-		**KF**	**97R57**	**EDRE**	**90L4**		215	582
	5.6	2390	258	40000	1.80	-		**KA**	**97R57**	**EDRE**	**90L4**		175	582
	6.2	2150	232	40000	2.0	-		**KAF**	**97R57**	**EDRE**	**90L4**		200	582
	7.2	1840	199	40000	2.3	-								
	4.9	2700	294	27300	1.00	-								
	5.7	2320	250	27700	1.15	-		**K**	**87R57**	**EDRE**	**90L4**		135	582
	6.0	2190	236	27900	1.25	-		**KF**	**87R57**	**EDRE**	**90L4**		145	582
	7.1	1860	201	28200	1.45	-		**KA**	**87R57**	**EDRE**	**90L4**		120	582
	7.8	1690	183	28300	1.60	-		**KAF**	**87R57**	**EDRE**	**90L4**		135	582

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
1.5	**8.1**	1760	176.05*	40000	2.4	-		**K**	**97**	**EDRE**	**90L4**		170	558
	9.3	1530	153.21*	40000	2.8	-		**KF**	**97**	**EDRE**	**90L4**		190	559
	10	1400	140.28	40000	3.1	-		**KA**	**97**	**EDRE**	**90L4**		150	560
	12	1240	123.93*	40000	3.5	-		**KAF**	**97**	**EDRE**	**90L4**		175	559
	8.2	1740	174.19	28300	1.55	-								
	8.7	1640	164.34*	28400	1.65	-								
	9.7	1470	147.32*	28500	1.85	-		**K**	**87**	**EDRE**	**90L4**		110	553
	11	1270	126.91*	28600	2.1	-		**KF**	**87**	**EDRE**	**90L4**		120	554
	12	1160	115.82	28700	2.3	-		**KA**	**87**	**EDRE**	**90L4**		99	555
	14	1020	102.71*	28800	2.6	-		**KAF**	**87**	**EDRE**	**90L4**		110	554
	17	860	86.34	28900	3.0	-								
	11	1350	135.28	16600	1.15	-								
	11	1280	128.52	17000	1.20	-	X							
	13	1130	113.56	17700	1.35	-								
	15	970	97.05	18400	1.50	-								
	16	890	88.97	18700	1.60	-		**K**	**77**	**EDRE**	**90L4**		75	548
	18	780	78.07	19000	1.75	-		**KF**	**77**	**EDRE**	**90L4**		83	549
	19	740	73.99	19200	1.80	-		**KA**	**77**	**EDRE**	**90L4**		68	550
	22	645	64.75	19400	2.0	-		**KAF**	**77**	**EDRE**	**90L4**		76	549
	25	580	58.34	19500	2.2	-								
	28	510	51.18	19700	2.5	-								
	32	450	45.16	19800	2.8	-								
	36	400	40.04	19900	3.1	-								
	19	765	76.37	10800	1.05	-								
	21	690	68.95	11300	1.15	-	X							
	24	605	60.66	11900	1.30	-								
	25	570	57.28	12000	1.35	-								
	29	485	48.77	12500	1.55	-		**K**	**67**	**EDRE**	**90L4**		50	543
	32	440	44.32	12600	1.65	-		**KF**	**67**	**EDRE**	**90L4**		56	544
	37	380	38.39	12900	1.85	-		**KA**	**67**	**EDRE**	**90L4**		48	545
	40	355	35.62	13000	2.2	-		**KAF**	**67**	**EDRE**	**90L4**		53	544
	47	300	30.22	13000	2.4	-								
	52	270	27.28	13000	2.6	-								
	60	240	24.00	13000	2.8	-								
	25	575	57.42*	7830	1.05	-								
	29	485	48.89	8470	1.25	-								
	32	445	44.43	8680	1.35	-								
	37	385	38.49	8940	1.55	-		**K**	**57**	**EDRE**	**90L4**		44	538
	40	355	35.70	9060	1.70	-		**KF**	**57**	**EDRE**	**90L4**		49	539
	47	300	30.28	9170	2.00	-		**KA**	**57**	**EDRE**	**90L4**		42	540
	52	270	27.34	8990	2.2	-		**KAF**	**57**	**EDRE**	**90L4**		48	539
	59	240	24.05	8750	2.4	-								
	63	225	22.71	8640	2.5	-								
	74	194	19.34	8340	2.8	-								
	36	395	39.61	5970	1.00	-								
	40	350	35.39	6350	1.15	-								
	46	310	31.30	6300	1.30	-								
	49	290	29.32	6260	1.35	-								
	55	255	25.91	6180	1.55	-		**K**	**47**	**EDRE**	**90L4**		39	533
	66	215	21.81	6040	1.85	-		**KF**	**47**	**EDRE**	**90L4**		42	534
	73	196	19.58	5940	2.00	-		**KA**	**47**	**EDRE**	**90L4**		38	535
	85	169	16.86	5780	2.2	-		**KAF**	**47**	**EDRE**	**90L4**		41	534
	90	159	15.86	5720	2.3	-								
	105	137	13.65	5550	2.6	-								
	117	122	12.19	5420	2.8	-								
	122	118	11.77	5320	2.00	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
1.5	**83**	172	17.15	2940	1.05	-								
	93	153	15.31	2940	1.15	-								
	109	131	13.08	2930	1.25	-								
	118	122	12.14	2920	1.30	-								
	136	105	10.49	2880	1.40	-		**K**	**37**		**EDRE**	**90L4**	32	528
	160	89	8.91	2820	1.55	-		**KF**	**37**		**EDRE**	**90L4**	34	529
	180	80	7.96	2770	1.65	-		**KA**	**37**		**EDRE**	**90L4**	32	530
	210	68	6.80	2700	1.90	-		**KAF**	**37**		**EDRE**	**90L4**	33	529
	225	64	6.37	2660	1.95	-								
	267	54	5.36	2570	2.2	-								
	359	40	3.98	2410	2.7	-								
2.2	**0.51**	35900	2818	190000	1.40	-		**K**	**187R97**		**EDRE**	**100M4**	1780	582
								KH	**187R97**		**EDRE**	**100M4**	1710	582
	0.39	48400	3609	190000	1.05	-								
	0.47	41100	3062	190000	1.20	-								
	0.57	33500	2519	190000	1.50	-								
	0.63	30100	2268	190000	1.65	-		**K**	**187R97**		**EDRE**	**100M4**	1780	582
	0.69	27100	2054	190000	1.85	-		**KH**	**187R97**		**EDRE**	**100M4**	1710	582
	0.78	23800	1821	190000	2.1	-								
	0.89	21200	1605	190000	2.4	-								
	0.63	29100	2263	150000	1.10	-		**K**	**167R97**		**EDRE**	**100M4**	1200	582
								KH	**167R97**		**EDRE**	**100M4**	1160	582
	0.65	29300	2182	150000	1.10	-								
	0.84	22800	1704	150000	1.40	-								
	1.0	18800	1408	150000	1.70	-		**K**	**167R97**		**EDRE**	**100M4**	1200	582
	1.1	17300	1296	150000	1.85	-		**KH**	**167R97**		**EDRE**	**100M4**	1160	582
	1.3	14400	1101	150000	2.2	-								
	1.5	12400	944	150000	2.6	-								
	1.2	16300	1229	113000	1.10	-								
	1.3	14500	1093	113800	1.25	-		**K**	**157R97**		**EDRE**	**100M4**	800	582
	1.5	12500	942	114500	1.45	-		**KF**	**157R97**		**EDRE**	**100M4**	880	582
	1.7	11200	854	114900	1.60	-		**KA**	**157R97**		**EDRE**	**100M4**	770	582
	1.9	9760	756	115400	1.85	-		**KAF**	**157R97**		**EDRE**	**100M4**	830	582
	2.7	7110	536	81700	1.85	-								
	3.0	6220	473	82000	2.1	-		**K**	**127R87**		**EDRE**	**100M4**	510	582
	3.4	5610	418	82200	2.3	-		**KF**	**127R87**		**EDRE**	**100M4**	550	582
	3.9	4910	367	82300	2.6	-		**KA**	**127R87**		**EDRE**	**100M4**	480	582
	4.3	4400	330	82400	3.0	-		**KAF**	**127R87**		**EDRE**	**100M4**	520	582
	1.6	12200	899	79600	1.05	-								
	1.8	10600	790	80400	1.20	-	X							
	2.0	9530	704	80900	1.35	-		**K**	**127R77**		**EDRE**	**100M4**	490	582
	2.3	8230	610	81400	1.60	-		**KF**	**127R77**		**EDRE**	**100M4**	530	582
	2.6	7420	549	81600	1.75	-		**KA**	**127R77**		**EDRE**	**100M4**	460	582
	3.0	6410	477	81900	2.0	-		**KAF**	**127R77**		**EDRE**	**100M4**	500	582
	3.4	5650	418	82100	2.3	-								
	2.7	7040	522	65000	1.15	-								
	3.1	6190	461	65000	1.30	-	X							
	3.5	5480	408	65000	1.45	-	X	**K**	**107R77**		**EDRE**	**100M4**	330	582
	3.9	4920	364	65000	1.60	-	X	**KF**	**107R77**		**EDRE**	**100M4**	340	582
	4.5	4300	318	65000	1.85	-		**KA**	**107R77**		**EDRE**	**100M4**	300	582
	5.0	3870	286	65000	2.1	-		**KAF**	**107R77**		**EDRE**	**100M4**	325	582
	5.7	3390	251	65000	2.4	-								
	4.7	4190	305	40000	1.00	-		**K**	**97R57**		**EDRE**	**100M4**	200	582
	5.5	3540	258	40000	1.20	-	X	**KF**	**97R57**		**EDRE**	**100M4**	220	582
	6.1	3180	232	40000	1.35	-		**KA**	**97R57**		**EDRE**	**100M4**	180	582
	7.2	2730	199	40000	1.55	-		**KAF**	**97R57**		**EDRE**	**100M4**	205	582

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
2.2	**8.1**	2590	176.05*	40000	1.65	-							
	9.3	2250	153.21*	40000	1.90	-	**K**	**97**	**EDRE**	**100M4**	175	558
	10	2060	140.28	40000	2.1	-	**KF**	**97**	**EDRE**	**100M4**	195	559
	12	1820	123.93*	40000	2.4	-	**KA**	**97**	**EDRE**	**100M4**	155	560
	14	1540	105.13	40000	2.7	-	**KAF**	**97**	**EDRE**	**100M4**	180	559
	15	1420	96.80	40000	2.9	-						
	9.7	2170	147.32*	27900	1.25	-						
	11	1870	126.91*	28200	1.45	-						
	12	1700	115.82	28300	1.60	-	**K**	**87**	**EDRE**	**100M4**	115	553
	14	1510	102.71*	28500	1.80	-	**KF**	**87**	**EDRE**	**100M4**	125	554
	16	1270	86.34	28600	2.0	-	**KA**	**87**	**EDRE**	**100M4**	105	555
	18	1160	79.34	28700	2.2	-	**KAF**	**87**	**EDRE**	**100M4**	115	554
	20	1030	70.46	28800	2.4	-						
	23	920	63.00*	28800	2.6	-						
	15	1430	97.05	16200	1.05	-						
	16	1310	88.97	16900	1.10	-						
	18	1150	78.07	17700	1.20	-						
	19	1090	73.99	17900	1.25	-						
	22	950	64.75	18500	1.40	-						
	24	860	58.34	18800	1.50	-	**K**	**77**	**EDRE**	**100M4**	80	548
	28	750	51.18	19100	1.70	-	**KF**	**77**	**EDRE**	**100M4**	88	549
	32	665	45.16	19300	1.90	-	**KA**	**77**	**EDRE**	**100M4**	73	550
	36	590	40.04	19500	2.1	-	**KAF**	**77**	**EDRE**	**100M4**	80	549
	40	515	35.20	19700	3.0	-						
	46	455	30.89	19800	3.4	-						
	49	430	29.27	19800	3.6	-						
	56	375	25.62	19900	4.1	-						
	29	715	48.77	11100	1.05	-						
	32	650	44.32	11600	1.15	-						
	37	565	38.39	12100	1.25	-						
	40	525	35.62	12300	1.50	-						
	47	445	30.22	12600	1.65	-						
	52	400	27.28	12800	1.75	-						
	59	350	24.00	13000	1.90	-						
	63	330	22.66	13000	2.00	-	**K**	**67**	**EDRE**	**100M4**	55	543
	74	280	19.30	13000	2.2	-	**KF**	**67**	**EDRE**	**100M4**	61	544
	81	255	17.54	13000	2.4	-	**KA**	**67**	**EDRE**	**100M4**	52	545
	94	220	15.19	13000	2.7	-	**KAF**	**67**	**EDRE**	**100M4**	58	544
	108	195	13.22	13000	3.0	-						
	114	184	12.48	13000	2.00	-						
	134	157	10.63	13000	2.2	-						
	148	142	9.66	13000	2.4	-						
	170	123	8.37	13000	2.7	-						
	196	107	7.28	12700	2.9	-						
	274	77	5.20	11600	3.6	-						
	37	565	38.49	7900	1.05	-						
	40	525	35.70	8220	1.15	-						
	47	445	30.28	8240	1.35	-						
	52	400	27.34	8150	1.50	-						
	59	350	24.05	8020	1.60	-	**K**	**57**	**EDRE**	**100M4**	49	538
	63	330	22.71	7950	1.65	-	**KF**	**57**	**EDRE**	**100M4**	54	539
	74	285	19.34	7750	1.90	-	**KA**	**57**	**EDRE**	**100M4**	47	540
	81	255	17.57	7620	2.0	-	**KAF**	**57**	**EDRE**	**100M4**	53	539
	94	220	15.22	7410	2.2	-						
	108	195	13.25	7200	2.5	-						
	120	176	11.92	6880	2.00	-						
	127	166	11.26	6800	2.1	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
2.2	**55**	380	25.91	5260	1.05	-								
	65	320	21.81	5260	1.25	-								
	73	285	19.58	5240	1.35	-								
	84	245	16.86	5180	1.50	-		**K**	**47**		**EDRE**	**100M4**	43	533
	90	230	15.86	5150	1.55	-		**KF**	**47**		**EDRE**	**100M4**	47	534
	104	200	13.65	5060	1.75	-		**KA**	**47**		**EDRE**	**100M4**	43	535
	117	180	12.19	4980	1.90	-		**KAF**	**47**		**EDRE**	**100M4**	45	534
	121	174	11.77	4880	1.35	-								
	135	156	10.56	4800	1.45	-								
	157	134	9.10	4680	1.60	-								
	160	131	8.91	2440	1.05	-								
	179	117	7.96	2430	1.15	-		**K**	**37**		**EDRE**	**100M4**	37	528
	210	100	6.80	2410	1.30	-		**KF**	**37**		**EDRE**	**100M4**	39	529
	224	94	6.37	2390	1.35	-		**KA**	**37**		**EDRE**	**100M4**	36	530
	266	79	5.36	2350	1.50	-		**KAF**	**37**		**EDRE**	**100M4**	38	529
	358	59	3.98	2240	1.85	-								
3.0	**0.52**	48700	2818	190000	1.05	-		**K**	**187R97**		**EDRE**	**100LC4**	1790	582
								KH	**187R97**		**EDRE**	**100LC4**	1720	582
	0.58	45200	2519	190000	1.10	-								
	0.64	40500	2268	190000	1.25	-								
	0.71	36600	2054	190000	1.35	-								
	0.80	32200	1821	190000	1.55	-		**K**	**187R97**		**EDRE**	**100LC4**	1780	582
	0.91	28600	1605	190000	1.75	-		**KH**	**187R97**		**EDRE**	**100LC4**	1720	582
	1.0	24400	1395	190000	2.0	-								
	1.2	21200	1196	190000	2.4	-								
	0.85	30600	1704	150000	1.05	-								
	1.0	25300	1408	150000	1.25	-								
	1.1	23300	1296	150000	1.35	-								
	1.3	19500	1101	150000	1.65	-		**K**	**167R97**		**EDRE**	**100LC4**	1200	582
	1.5	16800	944	150000	1.90	-		**KH**	**167R97**		**EDRE**	**100LC4**	1160	582
	1.7	14700	843	150000	2.2	-								
	1.9	13300	757	150000	2.4	-								
	1.5	16800	942	112700	1.05	-								
	1.7	15200	854	113500	1.20	-		**K**	**157R97**		**EDRE**	**100LC4**	810	582
	1.9	13200	756	114300	1.35	-		**KF**	**157R97**		**EDRE**	**100LC4**	890	582
	2.6	10000	567	115300	1.80	-		**KA**	**157R97**		**EDRE**	**100LC4**	770	582
	2.9	8930	504	115600	2.0	-		**KAF**	**157R97**		**EDRE**	**100LC4**	830	582
	2.7	9580	536	80900	1.35	-								
	3.1	8410	473	81300	1.55	-		**K**	**127R87**		**EDRE**	**100LC4**	510	582
	3.5	7560	418	81600	1.70	-		**KF**	**127R87**		**EDRE**	**100LC4**	560	582
	4.0	6610	367	81900	1.95	-		**KA**	**127R87**		**EDRE**	**100LC4**	485	582
	4.4	5930	330	82100	2.2	-		**KAF**	**127R87**		**EDRE**	**100LC4**	520	582
	5.1	5090	287	82300	2.6	-								
	2.1	12700	704	79300	1.00	-								
	2.4	11000	610	80200	1.20	-		**K**	**127R77**		**EDRE**	**100LC4**	495	582
	2.6	9960	549	80700	1.30	-		**KF**	**127R77**		**EDRE**	**100LC4**	540	582
	3.0	8620	477	81200	1.50	-		**KA**	**127R77**		**EDRE**	**100LC4**	465	582
	3.5	7590	418	81600	1.70	-		**KAF**	**127R77**		**EDRE**	**100LC4**	500	582
	3.6	7360	408	65000	1.10	-								
	4.0	6600	364	65000	1.20	-	X							
	4.6	5770	318	65000	1.40	-								
	5.1	5190	286	65000	1.55	-		**K**	**107R77**		**EDRE**	**100LC4**	335	582
	5.8	4550	251	65000	1.75	-		**KF**	**107R77**		**EDRE**	**100LC4**	345	582
	6.6	4000	222	65000	2.0	-		**KA**	**107R77**		**EDRE**	**100LC4**	305	582
	7.4	3540	196	65000	2.2	-		**KAF**	**107R77**		**EDRE**	**100LC4**	330	582
	8.4	3170	174	65000	2.3	-								
	9.4	2800	154	65000	2.6	-								
	10	2540	140	65000	2.8	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠		m [kg]	
3.0	**6.3**	4270	232	40000	1.00	-	**K 97R57 EDRE 100LC4**	205	582
	7.3	3660	199	40000	1.15	-	**KF 97R57 EDRE 100LC4**	225	582
							KA 97R57 EDRE 100LC4	185	582
							KAF 97R57 EDRE 100LC4	210	582
	10	2820	143.47*	65000	2.8	-	**K 107 EDRE 100LC4**	295	563
	12	2390	121.46	65000	3.4	-	**KF 107 EDRE 100LC4**	310	564
	13	2210	112.41*	65000	3.6	-	**KA 107 EDRE 100LC4**	270	565
	14	1980	100.75	65000	3.8	-	**KAF 107 EDRE 100LC4**	290	564
	8.3	3460	176.05*	40000	1.25	-			
	9.5	3010	153.21*	40000	1.45	-			
	10	2760	140.28	40000	1.55	-			
	12	2440	123.93*	40000	1.75	-			
	14	2070	105.13	40000	2.0	-	**K 97 EDRE 100LC4**	180	558
	15	1900	96.80	40000	2.2	-	**KF 97 EDRE 100LC4**	200	559
	17	1700	86.52	40000	2.3	-	**KA 97 EDRE 100LC4**	160	560
	19	1530	77.89*	40000	2.5	-	**KAF 97 EDRE 100LC4**	185	559
	21	1380	70.54	40000	2.8	-			
	23	1230	62.55	40000	3.1	-			
	26	1110	56.55	40000	3.4	-			
	11	2490	126.91*	27500	1.10	-			
	13	2280	115.82	27800	1.20	-			
	14	2020	102.71*	28000	1.35	-			
	17	1690	86.34	28300	1.50	-			
	18	1560	79.34	28400	1.60	-	**K 87 EDRE 100LC4**	120	553
	21	1380	70.46	28600	1.80	-	**KF 87 EDRE 100LC4**	130	554
	23	1240	63.00*	28600	2.00	-	**KA 87 EDRE 100LC4**	110	555
	26	1110	56.64	28700	2.2	-	**KAF 87 EDRE 100LC4**	120	554
	30	960	49.16	28800	2.4	-			
	33	860	44.02	28800	2.7	-			
	40	715	36.52*	28200	3.1	-			
	22	1270	64.75	17100	1.05	-			
	25	1140	58.34	17700	1.15	-			
	28	1000	51.18	18300	1.25	-	**K 77 EDRE 100LC4**	85	548
	32	880	45.16	18700	1.40	-	**KF 77 EDRE 100LC4**	93	549
	36	785	40.04	19000	1.55	-	**KA 77 EDRE 100LC4**	78	550
	41	690	35.20	19300	2.2	-	**KAF 77 EDRE 100LC4**	85	549
	47	605	30.89	19500	2.6	-			
	41	700	35.62	11300	1.10	-			
	48	590	30.22	11900	1.25	-			
	53	535	27.28	12200	1.30	-			
	61	470	24.00	12500	1.45	-			
	64	445	22.66	12600	1.50	-	**K 67 EDRE 100LC4**	60	543
	75	375	19.30	12900	1.65	-	**KF 67 EDRE 100LC4**	66	544
	83	345	17.54	13000	1.80	-	**KA 67 EDRE 100LC4**	57	545
	96	295	15.19	13000	2.0	-	**KAF 67 EDRE 100LC4**	63	544
	110	260	13.22	13000	2.2	-			
	117	245	12.48	13000	1.50	-			
	137	205	10.63	13000	1.65	-			
	151	190	9.66	13000	1.80	-			

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
3.0	**48**	595	30.28	7190	1.00	-								
	53	535	27.34	7190	1.10	-								
	60	470	24.05	7170	1.20	-								
	64	445	22.71	7150	1.25	-								
	75	380	19.34	7060	1.40	-								
	83	345	17.57	6980	1.50	-								
	96	295	15.22	6860	1.65	-	**K**	**57**		**EDRE**	**100LC4**		54	538
	110	260	13.25	6710	1.85	-	**KF**	**57**		**EDRE**	**100LC4**		59	539
	122	230	11.92	6380	1.50	-	**KA**	**57**		**EDRE**	**100LC4**		52	540
	129	220	11.26	6330	1.55	-	**KAF**	**57**		**EDRE**	**100LC4**		58	539
	152	189	9.59	6160	1.75	-								
	167	172	8.71	6050	1.90	-								
	193	149	7.55	5870	2.1	-								
	222	129	6.57	5700	2.3	-								
	310	92	4.69	5270	2.9	-								
	74	385	19.58	4450	1.00	-								
	86	330	16.86	4500	1.15	-								
	92	310	15.86	4510	1.15	-								
	107	265	13.65	4500	1.30	-								
	119	240	12.19	4480	1.40	-								
	124	230	11.77	4360	1.00	-	**K**	**47**		**EDRE**	**100LC4**		48	533
	138	205	10.56	4340	1.10	-	**KF**	**47**		**EDRE**	**100LC4**		52	534
	160	179	9.10	4280	1.20	-	**KA**	**47**		**EDRE**	**100LC4**		48	535
	170	168	8.56	4250	1.30	-	**KAF**	**47**		**EDRE**	**100LC4**		50	534
	198	145	7.36	4160	1.40	-								
	221	130	6.58	4090	1.55	-								
	250	114	5.81	4000	1.70	-								
	314	91	4.64	3830	1.95	-								
	229	125	6.37	2090	1.00	-	**K**	**37**		**EDRE**	**100LC4**		42	528
	271	106	5.36	2090	1.15	-	**KF**	**37**		**EDRE**	**100LC4**		44	529
	366	78	3.98	2040	1.40	-	**KA**	**37**		**EDRE**	**100LC4**		41	530
							KAF	**37**		**EDRE**	**100LC4**		43	529
4.0	**1.8**	19500	835	190000	2.6	-	**K**	**187R107**		**EDRE**	**132S4**		1840	582
	2.8	12200	520	190000	4.1	-	**KH**	**187R107**		**EDRE**	**132S4**		1780	582
	0.71	49000	2054	190000	1.00	-								
	0.80	43300	1821	190000	1.15	-								
	0.91	38300	1605	190000	1.30	-								
	1.0	32800	1395	190000	1.50	-	**K**	**187R97**		**EDRE**	**132S4**		1800	582
	1.2	28400	1196	190000	1.75	-	**KH**	**187R97**		**EDRE**	**132S4**		1730	582
	1.4	24800	1046	190000	2.0	-								
	1.5	22400	945	190000	2.2	-								
	1.1	31100	1296	150000	1.05	-								
	1.3	26100	1101	150000	1.20	-								
	1.6	22500	944	150000	1.40	-	**K**	**167R97**		**EDRE**	**132S4**		1220	582
	1.7	19800	843	150000	1.60	-	**KH**	**167R97**		**EDRE**	**132S4**		1180	582
	1.9	17900	757	150000	1.80	-								
	2.3	15000	632	150000	2.1	-								
	1.9	17800	756	112300	1.00	-	**K**	**157R97**		**EDRE**	**132S4**		820	582
	2.6	13400	567	114200	1.35	-	**KF**	**157R97**		**EDRE**	**132S4**		900	582
	2.9	11900	504	114700	1.50	-	**KA**	**157R97**		**EDRE**	**132S4**		780	582
	3.4	10200	434	115200	1.75	-	**KAF**	**157R97**		**EDRE**	**132S4**		840	582
	2.7	12800	536	79300	1.00	-								
	3.1	11200	473	80100	1.15	-								
	3.5	10100	418	80600	1.30	-	**K**	**127R87**		**EDRE**	**132S4**		530	582
	4.0	8830	367	81200	1.45	-	**KF**	**127R87**		**EDRE**	**132S4**		570	582
	4.4	7930	330	81500	1.65	-	**KA**	**127R87**		**EDRE**	**132S4**		500	582
	5.1	6820	287	81800	1.90	-	**KAF**	**127R87**		**EDRE**	**132S4**		540	582
	5.8	6030	253	82100	2.2	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
4.0	**3.1**	11500	477	80000	1.15	-		**K**	**127R77**	**EDRE**	**132S4**	510	582
	3.5	10100	418	80600	1.30	-		**KF**	**127R77**	**EDRE**	**132S4**	550	582
								KA	**127R77**	**EDRE**	**132S4**	480	582
								KAF	**127R77**	**EDRE**	**132S4**	520	582
	4.6	7690	318	65000	1.05	-							
	5.1	6920	286	65000	1.15	-							
	5.8	6060	251	65000	1.30	-		**K**	**107R77**	**EDRE**	**132S4**	345	582
	6.6	5340	222	65000	1.50	-		**KF**	**107R77**	**EDRE**	**132S4**	360	582
	7.4	4730	196	65000	1.70	-		**KA**	**107R77**	**EDRE**	**132S4**	320	582
	8.4	4230	174	65000	1.70	-		**KAF**	**107R77**	**EDRE**	**132S4**	345	582
	9.5	3740	154	65000	1.90	-							
	10	3400	140	65000	2.1	-							
	10	3750	143.47*	65000	2.1	-							
	12	3170	121.46	65000	2.5	-							
	13	2940	112.41*	65000	2.7	-		**K**	**107**	**EDRE**	**132S4**	305	563
	14	2630	100.75	65000	2.9	-		**KF**	**107**	**EDRE**	**132S4**	320	564
	16	2370	90.96*	65000	3.1	-		**KA**	**107**	**EDRE**	**132S4**	280	565
	18	2160	82.61	65000	3.4	-		**KAF**	**107**	**EDRE**	**132S4**	305	564
	20	1910	73.30	65000	3.8	-							
	9.5	4000	153.21*	40000	1.05	-							
	10	3670	140.28	40000	1.15	-							
	12	3240	123.93*	40000	1.35	-		**K**	**97**	**EDRE**	**132S4**	195	558
	14	2750	105.13	40000	1.55	-		**KF**	**97**	**EDRE**	**132S4**	215	559
	15	2530	96.80	40000	1.60	-		**KA**	**97**	**EDRE**	**132S4**	175	560
	17	2260	86.52	40000	1.75	-		**KAF**	**97**	**EDRE**	**132S4**	200	559
	19	2030	77.89*	40000	1.90	-							
	21	1840	70.54	40000	2.1	-							
	14	2680	102.71*	27300	1.00	-							
	17	2250	86.34	27800	1.15	-							
	18	2070	79.34	28000	1.20	-							
	21	1840	70.46	28200	1.35	-		**K**	**87**	**EDRE**	**132S4**	135	553
	23	1640	63.00*	28400	1.50	-		**KF**	**87**	**EDRE**	**132S4**	145	554
	26	1480	56.64	28500	1.65	-		**KA**	**87**	**EDRE**	**132S4**	120	555
	30	1280	49.16	28600	1.85	-		**KAF**	**87**	**EDRE**	**132S4**	135	554
	33	1150	44.02	28200	2.0	-							
	40	950	36.52*	27200	2.4	-							
	32	1180	45.16	17500	1.05	-							
	36	1040	40.04	18100	1.20	-							
	38	1000	38.39	18300	1.50	-							
	41	920	35.20	18600	1.70	-		**K**	**77**	**EDRE**	**132S4**	98	548
	47	800	30.89	19000	1.90	-		**KF**	**77**	**EDRE**	**132S4**	105	549
	50	765	29.27	19100	2.0	-		**KA**	**77**	**EDRE**	**132S4**	91	550
	57	670	25.62	19300	2.3	-		**KAF**	**77**	**EDRE**	**132S4**	99	549
	63	600	23.08	19500	2.5	-							
	72	525	20.25	19600	2.7	-							
	54	710	27.28	11200	1.00	-							
	61	625	24.00	11700	1.10	-							
	64	590	22.66	11900	1.10	-							
	76	500	19.30	12400	1.25	-							
	83	455	17.54	12600	1.35	-							
	96	395	15.19	12800	1.50	-		**K**	**67**	**EDRE**	**132S4**	115	543
	110	345	13.22	13000	1.65	-		**KF**	**67**	**EDRE**	**132S4**	120	544
	117	325	12.48	13000	1.10	-		**KA**	**67**	**EDRE**	**132S4**	110	545
	137	275	10.63	13000	1.25	-		**KAF**	**67**	**EDRE**	**132S4**	115	544
	151	250	9.66	12800	1.35	-							
	175	215	8.37	12400	1.50	-							
	201	190	7.28	12100	1.65	-							
	281	136	5.20	11100	2.1	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
4.0	**76**	505	19.34	6230	1.05	-								
	83	455	17.57	6230	1.15	-								
	96	395	15.22	6200	1.25	-								
	110	345	13.25	6140	1.40	-								
	122	310	11.92	5800	1.10	-		**K**	**57**		**EDRE**	**132S4**	110	538
	130	290	11.26	5780	1.15	-		**KF**	**57**		**EDRE**	**132S4**	110	539
	152	250	9.59	5690	1.30	-		**KA**	**57**		**EDRE**	**132S4**	105	540
	168	225	8.71	5620	1.45	-		**KAF**	**57**		**EDRE**	**132S4**	110	539
	193	197	7.55	5500	1.60	-								
	222	172	6.57	5380	1.75	-								
	311	123	4.69	5040	2.2	-								
5.5	**1.0**	45800	1395	190000	1.10	-								
	1.2	39500	1196	190000	1.25	-								
	1.4	34500	1046	190000	1.45	-		**K**	**187R97**		**EDRE**	**132M4**	1810	582
	1.5	31100	945	190000	1.60	-		**KH**	**187R97**		**EDRE**	**132M4**	1740	582
	2.0	24300	738	190000	2.0	-								
	2.3	20400	621	190000	2.4	-								
	1.5	31200	944	150000	1.00	-								
	1.7	27700	843	150000	1.15	-								
	1.9	24900	757	150000	1.30	-								
	2.3	20800	632	150000	1.55	-		**K**	**167R97**		**EDRE**	**132M4**	1230	582
	2.6	18300	561	150000	1.75	-		**KH**	**167R97**		**EDRE**	**132M4**	1190	582
	3.0	15800	481	150000	2.0	-								
	3.4	13800	423	150000	2.3	-								
	2.9	16600	504	112800	1.10	-		**K**	**157R97**		**EDRE**	**132M4**	830	582
	3.4	14200	434	113900	1.25	-		**KF**	**157R97**		**EDRE**	**132M4**	910	582
	3.8	12300	379	114600	1.45	-		**KA**	**157R97**		**EDRE**	**132M4**	800	582
	4.4	10900	333	115000	1.65	-		**KAF**	**157R97**		**EDRE**	**132M4**	860	582
	4.0	12200	367	79600	1.05	-								
	4.4	10900	330	80200	1.20	-								
	5.1	9480	287	80900	1.35	-		**K**	**127R87**		**EDRE**	**132M4**	540	582
	5.7	8380	253	81300	1.55	-		**KF**	**127R87**		**EDRE**	**132M4**	580	582
	6.8	7040	213	81800	1.85	-		**KA**	**127R87**		**EDRE**	**132M4**	510	582
	7.3	6710	200	81900	1.80	-		**KAF**	**127R87**		**EDRE**	**132M4**	550	582
	8.8	5550	166	82200	2.2	-								
	9.9	4900	147	82300	2.4	-								
	6.6	7400	222	65000	1.10	-								
	7.4	6550	196	65000	1.20	-	X	**K**	**107R77**		**EDRE**	**132M4**	360	582
	8.4	5860	174	65000	1.25	-		**KF**	**107R77**		**EDRE**	**132M4**	370	582
	9.4	5190	154	65000	1.40	-		**KA**	**107R77**		**EDRE**	**132M4**	330	582
	10	4710	140	65000	1.55	-		**KAF**	**107R77**		**EDRE**	**132M4**	355	582
	11	4910	136.14	82300	2.6	-		**K**	**127**		**EDRE**	**132M4**	480	568
	12	4420	122.48	82400	2.9	-		**KF**	**127**		**EDRE**	**132M4**	520	569
	13	3970	110.18	82500	3.3	-		**KA**	**127**		**EDRE**	**132M4**	450	570
	16	3240	89.89	82600	4.0	-		**KAF**	**127**		**EDRE**	**132M4**	490	569
	10	5170	143.47*	65000	1.55	-								
	12	4380	121.46	65000	1.80	-		**K**	**107**		**EDRE**	**132M4**	320	563
	13	4050	112.41*	65000	1.95	-		**KF**	**107**		**EDRE**	**132M4**	330	564
	14	3630	100.75	65000	2.1	-		**KA**	**107**		**EDRE**	**132M4**	290	565
	16	3280	90.96*	65000	2.3	-		**KAF**	**107**		**EDRE**	**132M4**	315	564
	18	2980	82.61	65000	2.5	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
5.5	**14**	3790	105.13	40000	1.10	-							
	15	3490	96.80	40000	1.15	-							
	17	3120	86.52	40000	1.25	-	**K**	**97**	**EDRE**	**132M4**	205	558
	19	2810	77.89*	40000	1.40	-	**KF**	**97**	**EDRE**	**132M4**	225	559
	21	2540	70.54	40000	1.50	-	**KA**	**97**	**EDRE**	**132M4**	185	560
	23	2250	62.55	40000	1.70	-	**KAF**	**97**	**EDRE**	**132M4**	210	559
	26	2040	56.55	39600	1.85	-						
	30	1730	47.93*	38400	2.1	-						
	23	2270	63.00*	27400	1.10	-						
	26	2040	56.64	27200	1.20	-						
	30	1770	49.16	26800	1.35	-	**K**	**87**	**EDRE**	**132M4**	145	553
	33	1580	44.02	26500	1.45	-	**KF**	**87**	**EDRE**	**132M4**	155	554
	40	1310	36.52*	25800	1.70	-	**KA**	**87**	**EDRE**	**132M4**	135	555
	46	1130	31.39	25100	2.3	-	**KAF**	**87**	**EDRE**	**132M4**	150	554
	52	1000	27.88	24600	2.5	-						
	47	1110	30.89	17800	1.40	-						
	50	1050	29.27	18100	1.45	-						
	57	920	25.62	18600	1.65	-						
	63	830	23.08	18900	1.80	-	**K**	**77**	**EDRE**	**132M4**	110	548
	72	730	20.25	19200	1.95	-	**KF**	**77**	**EDRE**	**132M4**	120	549
	81	640	17.87	19400	2.1	-	**KA**	**77**	**EDRE**	**132M4**	105	550
	92	570	15.84	19100	2.4	-	**KAF**	**77**	**EDRE**	**132M4**	110	549
	108	485	13.52	18500	2.7	-						
	118	445	12.36	17900	1.80	-						
	134	390	10.84	17400	2.0	-						
	96	545	15.19	12200	1.10	-						
	110	475	13.22	12500	1.20	-	**K**	**67**	**EDRE**	**132M4**	125	543
	174	300	8.37	11900	1.10	-	**KF**	**67**	**EDRE**	**132M4**	130	544
	200	260	7.28	11600	1.20	-	**KA**	**67**	**EDRE**	**132M4**	125	545
	280	188	5.20	10800	1.50	-	**KAF**	**67**	**EDRE**	**132M4**	130	544
7.5	**1.8**	37200	835	190000	1.35	-						
	2.0	32300	729	190000	1.55	-	**K**	**187R107**	**EDRE**	**160S4**	1870	582
	2.4	27500	622	190000	1.80	-	**KH**	**187R107**	**EDRE**	**160S4**	1810	582
	1.4	47000	1046	190000	1.05	-						
	1.6	42400	945	190000	1.20	-						
	2.0	33100	738	190000	1.50	-	**K**	**187R97**	**EDRE**	**160S4**	1820	582
	2.4	27800	621	190000	1.80	-	**KH**	**187R97**	**EDRE**	**160S4**	1760	582
	2.8	23500	527	190000	2.1	-						
	2.3	28400	632	150000	1.15	-						
	2.6	25000	561	150000	1.30	-						
	3.0	21600	481	150000	1.50	-	**K**	**167R97**	**EDRE**	**160S4**	1240	582
	3.5	18800	423	150000	1.70	-	**KH**	**167R97**	**EDRE**	**160S4**	1200	582
	4.0	16400	369	150000	1.95	-						
	3.9	16900	379	112700	1.05	-	**K**	**157R97**	**EDRE**	**160S4**	850	582
	4.4	14900	333	113600	1.20	-	**KF**	**157R97**	**EDRE**	**160S4**	930	582
	5.0	12900	291	114400	1.40	-	**KA**	**157R97**	**EDRE**	**160S4**	810	582
							KAF	**157R97**	**EDRE**	**160S4**	870	582
	5.1	12900	287	79200	1.00	-						
	5.8	11400	253	80000	1.15	-	**K**	**127R87**	**EDRE**	**160S4**	560	582
	6.9	9590	213	80900	1.35	-	**KF**	**127R87**	**EDRE**	**160S4**	600	582
	7.3	9130	200	81000	1.30	-	**KA**	**127R87**	**EDRE**	**160S4**	530	582
	8.8	7560	166	81600	1.60	-	**KAF**	**127R87**	**EDRE**	**160S4**	560	582
	10.0	6670	147	81900	1.80	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
7.5	**10**	7140	146.07	81700	1.80	-								
	11	6650	136.14	81900	1.95	-								
	12	5980	122.48	82100	2.2	-		**K**	**127**	**EDRE**	**160S4**		490	568
	13	5380	110.18	82200	2.4	-		**KF**	**127**	**EDRE**	**160S4**		530	569
	16	4390	89.89	82400	3.0	-		**KA**	**127**	**EDRE**	**160S4**		460	570
	18	4000	81.98	82500	3.2	-		**KAF**	**127**	**EDRE**	**160S4**		500	569
	21	3460	70.95*	82600	3.8	-								
	10	7010	143.47*	65000	1.15	-								
	12	5930	121.46	65000	1.35	-								
	13	5490	112.41*	65000	1.45	-								
	15	4920	100.75	65000	1.55	-								
	16	4440	90.96*	64000	1.70	-		**K**	**107**	**EDRE**	**160S4**		335	563
	18	4030	82.61	63000	1.85	-		**KF**	**107**	**EDRE**	**160S4**		350	564
	20	3580	73.30	61700	2.0	-		**KA**	**107**	**EDRE**	**160S4**		310	565
	22	3250	66.52*	60600	2.2	-		**KAF**	**107**	**EDRE**	**160S4**		330	564
	26	2790	57.17*	58800	2.5	-								
	29	2430	49.90	57200	2.8	-								
	35	2060	42.33*	55200	3.3	-								
	40	1800	37.00*	53500	3.7	-								
	19	3800	77.89*	38100	1.00	-								
	21	3440	70.54	37800	1.10	-								
	23	3050	62.55	37400	1.25	-		**K**	**97**	**EDRE**	**160S4**		220	558
	26	2760	56.55	37000	1.35	-		**KF**	**97**	**EDRE**	**160S4**		240	559
	31	2340	47.93*	36200	1.55	-		**KA**	**97**	**EDRE**	**160S4**		205	560
	35	2040	41.87	35500	1.75	-		**KAF**	**97**	**EDRE**	**160S4**		230	559
	38	1870	38.30	35000	2.3	-								
	43	1670	34.23	34300	2.6	-								
	33	2150	44.02	24100	1.10	-								
	40	1780	36.52*	23800	1.25	-								
	47	1530	31.39	23400	1.70	-								
	53	1360	27.88	23100	1.85	-		**K**	**87**	**EDRE**	**160S4**		160	553
	59	1210	24.92	22700	2.0	-		**KF**	**87**	**EDRE**	**160S4**		170	554
	65	1090	22.41	22400	2.1	-		**KA**	**87**	**EDRE**	**160S4**		150	555
	75	950	19.45	21800	2.4	-		**KAF**	**87**	**EDRE**	**160S4**		165	554
	84	850	17.42	21400	2.6	-								
	92	780	16.00	20500	1.95	-								
	101	705	14.45	20600	3.0	-								
	47	1500	30.89	15700	1.05	-								
	50	1430	29.27	16200	1.10	-								
	57	1250	25.62	17200	1.25	-								
	63	1120	23.08	17800	1.30	-								
	72	980	20.25	18300	1.45	-								
	82	870	17.87	18500	1.60	-		**K**	**77**	**EDRE**	**160S4**		125	548
	93	770	15.84	18200	1.75	-		**KF**	**77**	**EDRE**	**160S4**		135	549
	108	660	13.52	17700	2.0	-		**KA**	**77**	**EDRE**	**160S4**		120	550
	119	600	12.36	17000	1.35	-		**KAF**	**77**	**EDRE**	**160S4**		125	549
	135	525	10.84	16600	1.50	-								
	153	465	9.56	16200	1.65	-								
	173	410	8.48	15800	1.80	-								
	202	350	7.24	15300	2.00	-								
9.2	**1.8**	45700	835	190000	1.10	-								
	2.0	39700	729	190000	1.25	-								
	2.4	33900	622	190000	1.45	-		**K**	**187R107**	**EDRE**	**160M4**		1880	582
	2.8	28700	520	190000	1.75	-		**KH**	**187R107**	**EDRE**	**160M4**		1810	582
	3.2	25000	454	190000	2.0	-								
	2.0	40600	738	190000	1.25	-								
	2.4	34100	621	190000	1.45	-		**K**	**187R97**	**EDRE**	**160M4**		1830	582
	2.8	28900	527	190000	1.75	-		**KH**	**187R97**	**EDRE**	**160M4**		1770	582

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
9.2	**4.6**	17500	318	150000	1.80	-								
	5.3	15200	278	150000	2.1	-								
	6.0	13200	244	150000	2.4	-		**K**	**167R107**	**EDRE**	**160M4**		1300	582
	6.9	11500	213	150000	2.8	-		**KH**	**167R107**	**EDRE**	**160M4**		1260	582
	7.1	11200	206	150000	2.8	-								
	2.6	30700	561	150000	1.05	-								
	3.1	26500	481	150000	1.20	-		**K**	**167R97**	**EDRE**	**160M4**		1250	582
	3.5	23100	423	150000	1.40	-		**KH**	**167R97**	**EDRE**	**160M4**		1210	582
	4.0	20200	369	150000	1.60	-								
	4.5	17400	325	112500	1.05	-		**K**	**157R107**	**EDRE**	**160M4**		910	582
	4.9	16200	299	113000	1.10	-		**KF**	**157R107**	**EDRE**	**160M4**		980	582
	5.8	13700	253	114100	1.30	-		**KA**	**157R107**	**EDRE**	**160M4**		870	582
	6.4	12300	230	114600	1.45	-		**KAF**	**157R107**	**EDRE**	**160M4**		930	582
	5.0	15900	291	113200	1.15	-		**K**	**157R97**	**EDRE**	**160M4**		860	582
								KF	**157R97**	**EDRE**	**160M4**		940	582
								KA	**157R97**	**EDRE**	**160M4**		820	582
								KAF	**157R97**	**EDRE**	**160M4**		880	582
	6.9	11700	213	79900	1.10	-		**K**	**127R87**	**EDRE**	**160M4**		560	582
	7.3	11100	200	80100	1.05	-		**KF**	**127R87**	**EDRE**	**160M4**		610	582
	8.8	9260	166	81000	1.30	-		**KA**	**127R87**	**EDRE**	**160M4**		540	582
	10	8170	147	81400	1.45	-		**KAF**	**127R87**	**EDRE**	**160M4**		570	582
	11	8130	136.14	81400	1.60	-								
	12	7320	122.48	81700	1.80	-		**K**	**127**	**EDRE**	**160M4**		500	568
	13	6580	110.18	81900	1.95	-		**KF**	**127**	**EDRE**	**160M4**		540	569
	16	5370	89.89	82200	2.4	-		**KA**	**127**	**EDRE**	**160M4**		470	570
	18	4890	81.98	82300	2.6	-		**KAF**	**127**	**EDRE**	**160M4**		510	569
	13	6710	112.41*	62300	1.20	-	X							
	15	6020	100.75	61700	1.25	-								
	16	5430	90.96*	61000	1.35	-								
	18	4930	82.61	60300	1.50	-		**K**	**107**	**EDRE**	**160M4**		345	563
	20	4380	73.30	59300	1.65	-		**KF**	**107**	**EDRE**	**160M4**		355	564
	22	3970	66.52*	58400	1.80	-		**KA**	**107**	**EDRE**	**160M4**		315	565
	26	3410	57.17*	56900	2.1	-		**KAF**	**107**	**EDRE**	**160M4**		340	564
	29	2980	49.90	55500	2.3	-								
	35	2520	42.33*	53700	2.7	-								
	24	3730	62.55	35000	1.00	-								
	26	3370	56.55	34800	1.10	-								
	31	2860	47.93*	34400	1.25	-								
	35	2500	41.87	33900	1.45	-		**K**	**97**	**EDRE**	**160M4**		230	558
	38	2280	38.30	33500	1.90	-		**KF**	**97**	**EDRE**	**160M4**		250	559
	43	2040	34.23	33000	2.1	-		**KA**	**97**	**EDRE**	**160M4**		210	560
	48	1840	30.82	32400	2.3	-		**KAF**	**97**	**EDRE**	**160M4**		235	559
	53	1660	27.91	31900	2.6	-								
	59	1470	24.75	31200	2.9	-								
	40	2180	36.52*	22200	1.05	-								
	47	1870	31.39	22000	1.40	-								
	53	1660	27.88	21900	1.50	-								
	59	1480	24.92	21600	1.65	-								
	66	1330	22.41	21400	1.70	-		**K**	**87**	**EDRE**	**160M4**		170	553
	76	1160	19.45	21000	1.95	-		**KF**	**87**	**EDRE**	**160M4**		180	554
	84	1040	17.42	20600	2.1	-		**KA**	**87**	**EDRE**	**160M4**		160	555
	92	950	16.00	19700	1.60	-		**KAF**	**87**	**EDRE**	**160M4**		170	554
	102	860	14.45	20000	2.4	-								
	117	750	12.56	19500	2.7	-								
	132	665	11.17	18500	2.1	-								
	147	595	10.00	18200	2.3	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
9.2	**64**	1370	23.08	16500	1.10	-								
	73	1200	20.25	17400	1.20	-								
	82	1060	17.87	17600	1.30	-								
	93	940	15.84	17300	1.45	-	**K**	**77**		**EDRE**	**160M4**		135	548
	109	800	13.52	17000	1.65	-	**KF**	**77**		**EDRE**	**160M4**		145	549
	119	735	12.36	16200	1.10	-	**KA**	**77**		**EDRE**	**160M4**		130	550
	136	645	10.84	15900	1.20	-	**KAF**	**77**		**EDRE**	**160M4**		135	549
	154	570	9.56	15600	1.35	-								
	173	505	8.48	15300	1.45	-								
	203	430	7.24	14900	1.65	-								
11.0	**2.0**	47700	729	190000	1.05	-								
	2.4	40600	622	190000	1.25	-								
	2.8	34400	520	190000	1.45	-	**K**	**187R107**		**EDRE**	**180S4**		1910	582
	3.2	30000	454	190000	1.65	-	**KH**	**187R107**		**EDRE**	**180S4**		1850	582
	4.1	23100	355	190000	2.2	-								
	2.0	48700	738	190000	1.05	-								
	2.4	40900	621	190000	1.20	-	**K**	**187R97**		**EDRE**	**180S4**		1870	582
	2.8	34600	527	190000	1.45	-	**KH**	**187R97**		**EDRE**	**180S4**		1800	582
	4.6	21000	318	150000	1.50	-								
	5.3	18300	278	150000	1.75	-								
	6.0	15900	244	150000	2.0	-	**K**	**167R107**		**EDRE**	**180S4**		1330	582
	6.9	13800	213	150000	2.3	-	**KH**	**167R107**		**EDRE**	**180S4**		1290	582
	7.1	13500	206	150000	2.4	-								
	3.1	31700	481	150000	1.00	-								
	3.5	27700	423	150000	1.15	-	**K**	**167R97**		**EDRE**	**180S4**		1280	582
	4.0	24200	369	150000	1.30	-	**KH**	**167R97**		**EDRE**	**180S4**		1250	582
	8.8	11100	166	80200	1.10	-	**K**	**127R87**		**EDRE**	**180S4**		600	582
	10	9790	147	80800	1.25	-	**KF**	**127R87**		**EDRE**	**180S4**		640	582
							KA	**127R87**		**EDRE**	**180S4**		570	582
							KAF	**127R87**		**EDRE**	**180S4**		610	582
	8.9	11700	164.50	150000	2.7	-	**K**	**167**		**EDRE**	**180S4**		1160	578
	11	9640	134.99	150000	3.3	-	**KH**	**167**		**EDRE**	**180S4**		1120	579
	9.8	10700	150.41	115100	1.65	-	**K**	**157**		**EDRE**	**180S4**		760	573
	12	8740	122.39	115600	2.1	-	**KF**	**157**		**EDRE**	**180S4**		840	574
	15	7160	100.22	116000	2.5	-	**KA**	**157**		**EDRE**	**180S4**		730	575
	16	6540	91.65	116100	2.8	-	**KAF**	**157**		**EDRE**	**180S4**		790	574
	11	9720	136.14	80800	1.35	-								
	12	8750	122.48	81200	1.50	-	**K**	**127**		**EDRE**	**180S4**		530	568
	13	7870	110.18	81500	1.65	-	**KF**	**127**		**EDRE**	**180S4**		570	569
	16	6420	89.89	81900	2.0	-	**KA**	**127**		**EDRE**	**180S4**		500	570
	18	5850	81.98	82100	2.2	-	**KAF**	**127**		**EDRE**	**180S4**		540	569
	21	5060	70.95*	82300	2.6	-								
	15	7190	100.75	58200	1.05	-								
	16	6490	90.96*	57900	1.15	-								
	18	5900	82.61	57400	1.25	-								
	20	5230	73.30	56700	1.40	-	**K**	**107**		**EDRE**	**180S4**		380	563
	22	4750	66.52*	56100	1.50	-	**KF**	**107**		**EDRE**	**180S4**		390	564
	26	4080	57.17*	55000	1.70	-	**KA**	**107**		**EDRE**	**180S4**		350	565
	29	3560	49.90	53800	1.95	-	**KAF**	**107**		**EDRE**	**180S4**		375	564
	35	3020	42.33*	52300	2.2	-								
	40	2640	37.00*	51000	2.5	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
11.0	**31**	3420	47.93*	32400	1.05	-							
	35	2990	41.87	32200	1.20	-							
	38	2730	38.30	31900	1.55	-	**K**	**97**	**EDRE**	**180S4**		265	558
	43	2440	34.23	31600	1.75	-	**KF**	**97**	**EDRE**	**180S4**		285	559
	48	2200	30.82	31200	1.95	-	**KA**	**97**	**EDRE**	**180S4**		245	560
	53	1990	27.91	30800	2.2	-	**KAF**	**97**	**EDRE**	**180S4**		270	559
	59	1760	24.75	30200	2.4	-							
	66	1590	22.37	29700	2.7	-							
	47	2240	31.39	20600	1.15	-							
	53	1990	27.88	20500	1.25	-							
	59	1780	24.92	20500	1.35	-							
	66	1600	22.41	20300	1.45	-							
	76	1380	19.45	20000	1.65	-							
	84	1240	17.42	19800	1.75	-	**K**	**87**	**EDRE**	**180S4**		205	553
	92	1140	16.00	18800	1.30	-	**KF**	**87**	**EDRE**	**180S4**		215	554
	102	1030	14.45	19300	2.0	-	**KA**	**87**	**EDRE**	**180S4**		190	555
	117	890	12.56	18900	2.2	-	**KAF**	**87**	**EDRE**	**180S4**		205	554
	132	795	11.17	17900	1.75	-							
	147	710	10.00	17600	1.90	-							
	177	590	8.29	17000	2.2	-							
	204	515	7.21	16600	2.5	-							
15.0	**2.8**	47200	520	190000	1.05	-							
	3.2	41100	454	190000	1.20	-	**K**	**187R107**	**EDRE**	**180M4**		1930	582
	4.1	31800	355	190000	1.55	-	**KH**	**187R107**	**EDRE**	**180M4**		1860	582
	5.6	23600	261	190000	2.1	-							
	4.6	28800	318	150000	1.10	-							
	5.3	25100	278	150000	1.25	-							
	6.0	21800	244	150000	1.45	-							
	6.9	19000	213	150000	1.70	-	**K**	**167R107**	**EDRE**	**180M4**		1350	582
	7.1	18500	206	150000	1.75	-	**KH**	**167R107**	**EDRE**	**180M4**		1310	582
	8.2	16000	180	150000	2.0	-							
	9.2	14400	160	150000	2.2	-							
	7.8	16600	187	112900	1.10	-	**K**	**157R107**	**EDRE**	**180M4**		960	582
	9.4	14100	157	113900	1.30	-	**KF**	**157R107**	**EDRE**	**180M4**		1030	582
	12	11000	122	115000	1.65	-	**KA**	**157R107**	**EDRE**	**180M4**		920	582
	14	9640	107	115400	1.85	-	**KAF**	**157R107**	**EDRE**	**180M4**		980	582
	8.9	16000	164.50	150000	2.0	-	**K**	**167**	**EDRE**	**180M4**		1170	578
	11	13100	134.99	150000	2.4	-	**KH**	**167**	**EDRE**	**180M4**		1140	579
	9.8	14600	150.41	113700	1.25	-							
	12	11900	122.39	114700	1.50	-	**K**	**157**	**EDRE**	**180M4**		780	573
	15	9760	100.22	114100	1.85	-	**KF**	**157**	**EDRE**	**180M4**		860	574
	16	8930	91.65	112300	2.0	-	**KA**	**157**	**EDRE**	**180M4**		740	575
	18	7770	79.75	109500	2.3	-	**KAF**	**157**	**EDRE**	**180M4**		800	574
	12	11900	122.48	79800	1.10	-							
	13	10700	110.18	80400	1.20	-							
	16	8750	89.89	81200	1.50	-	**K**	**127**	**EDRE**	**180M4**		550	568
	18	7980	81.98	81500	1.65	-	**KF**	**127**	**EDRE**	**180M4**		590	569
	21	6910	70.95*	81500	1.90	-	**KA**	**127**	**EDRE**	**180M4**		520	570
	23	6100	62.60	79900	2.1	-	**KAF**	**127**	**EDRE**	**180M4**		560	569
	27	5260	54.07	77900	2.5	-							
	31	4650	47.82	76100	2.8	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
15.0	**20**	7140	73.30	50500	1.00	-							
	22	6480	66.52*	51000	1.10	-							
	26	5570	57.17*	50600	1.25	-							
	29	4860	49.90	50000	1.40	-	**K**	**107**	**EDRE**	**180M4**	395	563
	35	4120	42.33*	49100	1.65	-	**KF**	**107**	**EDRE**	**180M4**	405	564
	40	3600	37.00*	48200	1.85	-	**KA**	**107**	**EDRE**	**180M4**	365	565
	45	3180	32.69	47300	2.3	-	**KAF**	**107**	**EDRE**	**180M4**	390	564
	47	3040	31.28*	46900	2.1	-						
	51	2820	29.00	46300	2.6	-						
	38	3730	38.30	28500	1.15	-						
	43	3330	34.23	28500	1.30	-						
	48	3000	30.82	28400	1.45	-	**K**	**97**	**EDRE**	**180M4**	280	558
	53	2710	27.91	28200	1.60	-	**KF**	**97**	**EDRE**	**180M4**	300	559
	59	2410	24.75	28000	1.80	-	**KA**	**97**	**EDRE**	**180M4**	260	560
	66	2170	22.37	27700	1.95	-	**KAF**	**97**	**EDRE**	**180M4**	285	559
	78	1840	18.96	27100	2.3	-						
	89	1610	16.56	26600	2.7	-						
	59	2420	24.92	17800	1.00	-						
	66	2180	22.41	18000	1.05	-						
	76	1890	19.45	18000	1.20	-						
	84	1690	17.42	18000	1.30	-	**K**	**87**	**EDRE**	**180M4**	220	553
	102	1400	14.45	17800	1.50	-	**KF**	**87**	**EDRE**	**180M4**	230	554
	117	1220	12.56	17600	1.65	-	**KA**	**87**	**EDRE**	**180M4**	210	555
	132	1080	11.17	16600	1.30	-	**KAF**	**87**	**EDRE**	**180M4**	220	554
	147	970	10.00	16400	1.40	-						
	177	800	8.29	16000	1.60	-						
	204	700	7.21	15700	1.80	-						
18.5	**4.1**	39300	355	190000	1.25	-							
	5.6	29200	261	190000	1.70	-	**K**	**187R107**	**EDRE**	**180L4**	1940	582
	6.6	24700	221	190000	2.0	-	**KH**	**187R107**	**EDRE**	**180L4**	1880	582
	5.3	31100	278	150000	1.05	-						
	6.0	27000	244	150000	1.20	-						
	6.9	23500	213	150000	1.35	-						
	7.1	22900	206	150000	1.40	-	**K**	**167R107**	**EDRE**	**180L4**	1360	582
	8.2	19800	180	150000	1.60	-	**KH**	**167R107**	**EDRE**	**180L4**	1320	582
	9.2	17800	160	150000	1.80	-						
	11	15100	135	150000	2.1	-						
	12	13200	118	150000	2.4	-						
	9.4	17400	157	112400	1.05	-	**K**	**157R107**	**EDRE**	**180L4**	970	582
	12	13600	122	113900	1.30	-	**KF**	**157R107**	**EDRE**	**180L4**	1050	582
	14	11900	107	112000	1.50	-	**KA**	**157R107**	**EDRE**	**180L4**	930	582
							KAF	**157R107**	**EDRE**	**180L4**	990	582
	8.2	21600	179.86	190000	2.3	-						
	8.9	19800	165.21	190000	2.5	-	**K**	**187**	**EDRE**	**180L4**	1770	580
	10	17300	144.59	190000	2.9	-	**KH**	**187**	**EDRE**	**180L4**	1700	581
	11	15500	129.69	190000	3.2	-						
	11	16200	134.99	150000	1.95	-						
	13	13100	109.83	150000	2.4	-	**K**	**167**	**EDRE**	**180L4**	1180	578
	17	10500	87.86	150000	3.0	-	**KH**	**167**	**EDRE**	**180L4**	1150	579
	12	14700	122.39	111600	1.20	-						
	15	12000	100.22	109100	1.50	-						
	16	11000	91.65	107700	1.65	-						
	18	9580	79.75	105500	1.90	-	**K**	**157**	**EDRE**	**180L4**	790	573
	21	8450	70.38	103300	2.1	-	**KF**	**157**	**EDRE**	**180L4**	870	574
	24	7330	61.02	100700	2.4	-	**KA**	**157**	**EDRE**	**180L4**	750	575
	27	6520	54.29	98400	2.8	-	**KAF**	**157**	**EDRE**	**180L4**	810	574
	31	5620	46.79	95500	3.2	-						
	39	4560	38.02	91300	3.9	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
18.5	**16**	10800	89.89	79000	1.20	-							
	18	9850	81.98	78500	1.30	-							
	21	8520	70.95*	77400	1.50	-							
	23	7520	62.60	76300	1.75	-	**K**	**127**	**EDRE**	**180L4**	560	568
	27	6490	54.07	74800	2.0	-	**KF**	**127**	**EDRE**	**180L4**	600	569
	31	5740	47.82	73400	2.3	-	**KA**	**127**	**EDRE**	**180L4**	530	570
	37	4820	40.19	71200	2.7	-	**KAF**	**127**	**EDRE**	**180L4**	570	569
	41	4350	36.25	69900	3.0	-						
	47	3760	31.37	67900	3.4	-						
	53	3320	27.68	66200	3.9	-						
	26	6870	57.17*	45800	1.00	-						
	29	5990	49.90	46600	1.15	-						
	35	5080	42.33*	46200	1.35	-						
	40	4440	37.00*	45700	1.50	-						
	45	3920	32.69	45100	1.85	-	**K**	**107**	**EDRE**	**180L4**	405	563
	47	3750	31.28*	44800	1.75	-	**KF**	**107**	**EDRE**	**180L4**	420	564
	51	3480	29.00	44400	2.1	-	**KA**	**107**	**EDRE**	**180L4**	380	565
	56	3160	26.32	43800	2.3	-	**KAF**	**107**	**EDRE**	**180L4**	400	564
	65	2710	22.62	42700	2.6	-						
	74	2370	19.74	41700	3.0	-						
	88	2010	16.75	40400	3.4	-						
	48	3700	30.82	26000	1.15	-						
	53	3350	27.91	26000	1.30	-						
	59	2970	24.75	26000	1.45	-	**K**	**97**	**EDRE**	**180L4**	290	558
	66	2680	22.37	25900	1.60	-	**KF**	**97**	**EDRE**	**180L4**	310	559
	78	2270	18.96	25600	1.90	-	**KA**	**97**	**EDRE**	**180L4**	275	560
	89	1990	16.56	25300	2.2	-	**KAF**	**97**	**EDRE**	**180L4**	300	559
	106	1660	13.85	24800	2.5	-						
	123	1440	11.99	24200	2.7	-						
	84	2090	17.42	16400	1.05	-						
	102	1730	14.45	16500	1.20	-						
	117	1500	12.56	16400	1.30	-	**K**	**87**	**EDRE**	**180L4**	230	553
	132	1340	11.17	15400	1.05	-	**KF**	**87**	**EDRE**	**180L4**	240	554
	147	1200	10.00	15300	1.15	-	**KA**	**87**	**EDRE**	**180L4**	220	555
	177	990	8.29	15100	1.30	-	**KAF**	**87**	**EDRE**	**180L4**	235	554
	204	860	7.21	14900	1.50	-						
22	**4.2**	46500	355	190000	1.05	-						
	5.7	34600	261	190000	1.45	-						
	6.7	29300	221	190000	1.70	-	**K**	**187R107**	**EDRE**	**200L4**	2040	582
	7.6	25500	193	190000	1.95	-	**KH**	**187R107**	**EDRE**	**200L4**	1980	582
	9.0	21500	163	190000	2.3	-						
	6.1	31900	244	150000	1.00	-						
	6.9	27800	213	150000	1.15	-						
	7.2	27100	206	150000	1.20	-						
	8.2	23500	180	150000	1.35	-	**K**	**167R107**	**EDRE**	**200L4**	1460	582
	9.3	21100	160	150000	1.50	-	**KH**	**167R107**	**EDRE**	**200L4**	1420	582
	11	17900	135	150000	1.80	-						
	13	15600	118	150000	2.0	-						
	12	16100	122	108100	1.10	-	**K**	**157R107**	**EDRE**	**200L4**	1070	582
	14	14100	107	106900	1.25	-	**KF**	**157R107**	**EDRE**	**200L4**	1150	582
							KA	**157R107**	**EDRE**	**200L4**	1030	582
							KAF	**157R107**	**EDRE**	**200L4**	1090	582
	8.2	25500	179.86	190000	1.95	-						
	9.0	23400	165.21	190000	2.1	-	**K**	**187**	**EDRE**	**200L4**	1870	580
	10	20500	144.59	190000	2.4	-	**KH**	**187**	**EDRE**	**200L4**	1800	581
	11	18400	129.69	190000	2.7	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
22	**11**	19100	134.99	150000	1.65	-							
	13	15500	109.83	150000	2.0	-	**K**	**167**	**EDRE**	**200L4**	1290	578
	17	12400	87.86	150000	2.6	-	**KH**	**167**	**EDRE**	**200L4**	1250	579
	19	11000	78.14	150000	2.9	-						
	12	17300	122.39	105500	1.05	-						
	15	14200	100.22	104000	1.25	-						
	16	13000	91.65	103100	1.40	-						
	19	11300	79.75	101400	1.60	-	**K**	**157**	**EDRE**	**200L4**	900	573
	21	9990	70.38	99700	1.80	-	**KF**	**157**	**EDRE**	**200L4**	970	574
	24	8660	61.02	97500	2.1	-	**KA**	**157**	**EDRE**	**200L4**	860	575
	27	7700	54.29	95600	2.3	-	**KAF**	**157**	**EDRE**	**200L4**	920	574
	32	6640	46.79	93000	2.7	-						
	39	5390	38.02	89300	3.3	-						
	16	12700	89.89	73900	1.00	-						
	18	11600	81.98	73800	1.10	-						
	21	10000	70.95*	73400	1.30	-						
	24	8880	62.60	72700	1.45	-						
	27	7670	54.07	71700	1.70	-	**K**	**127**	**EDRE**	**200L4**	660	568
	31	6780	47.82	70600	1.90	-	**KF**	**127**	**EDRE**	**200L4**	700	569
	37	5700	40.19	68900	2.3	-	**KA**	**127**	**EDRE**	**200L4**	630	570
	41	5140	36.25	67700	2.5	-	**KAF**	**127**	**EDRE**	**200L4**	670	569
	47	4450	31.37	66000	2.9	-						
	53	3920	27.68	64500	3.3	-						
	62	3390	23.91	62600	3.8	-						
	70	3000	21.15	61100	4.3	-						
	35	6000	42.33*	42900	1.15	-						
	40	5250	37.00*	43200	1.25	-						
	45	4630	32.69	42900	1.55	-						
	47	4440	31.28*	42700	1.45	-						
	51	4110	29.00	42400	1.75	-						
	56	3730	26.32	42000	1.95	-	**K**	**107**	**EDRE**	**200L4**	510	563
	65	3210	22.62	41200	2.2	-	**KF**	**107**	**EDRE**	**200L4**	520	564
	75	2800	19.74	40300	2.6	-	**KA**	**107**	**EDRE**	**200L4**	480	565
	88	2370	16.75	39200	2.9	-	**KAF**	**107**	**EDRE**	**200L4**	510	564
	101	2070	14.64	38300	3.2	-						
	110	1900	13.43	36700	2.3	-						
	126	1660	11.73	35800	2.6	-						
	149	1410	9.94	34700	2.9	-						
	53	3960	27.91	23900	1.10	-						
	60	3510	24.75	24100	1.20	-						
	66	3170	22.37	24200	1.35	-						
	78	2690	18.96	24100	1.60	-	**K**	**97**	**EDRE**	**200L4**	395	558
	89	2350	16.56	24000	1.85	-	**KF**	**97**	**EDRE**	**200L4**	415	559
	107	1960	13.85	23600	2.1	-	**KA**	**97**	**EDRE**	**200L4**	375	560
	123	1700	11.99	23300	2.3	-	**KAF**	**97**	**EDRE**	**200L4**	400	559
	142	1470	10.41	21800	1.85	-						
	170	1230	8.71	21300	2.1	-						
30	**5.7**	47300	261	190000	1.05	-						
	6.7	40000	221	190000	1.25	-	**K**	**187R107**	**EDRE**	**225S4**	2080	582
	7.6	34900	193	190000	1.45	-	**KH**	**187R107**	**EDRE**	**225S4**	2010	582
	9.0	29500	163	190000	1.70	-						
	9.3	28900	160	150000	1.10	-						
	11	24500	135	150000	1.30	-	**K**	**167R107**	**EDRE**	**225S4**	1500	582
	13	21300	118	150000	1.50	-	**KH**	**167R107**	**EDRE**	**225S4**	1460	582

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
30	**8.2**	34800	179.86	190000	1.45	-							
	9.0	31900	165.21	190000	1.55	-							
	10	27900	144.59	190000	1.80	-							
	11	25100	129.69	190000	2.00	-	**K**	**187**	**EDRE**	**225S4**	1910	580
	13	21700	112.60	190000	2.3	-	**KH**	**187**	**EDRE**	**225S4**	1840	581
	14	19700	102.16	190000	2.5	-							
	17	17000	88.00	190000	2.9	-							
	13	21200	109.83	150000	1.50	-							
	17	17000	87.86	150000	1.90	-							
	19	15100	78.14	150000	2.1	-	**K**	**167**	**EDRE**	**225S4**	1320	578
	22	13100	68.07	150000	2.4	-	**KH**	**167**	**EDRE**	**225S4**	1290	579
	24	11700	60.74	150000	2.7	-							
	16	17700	91.65	92700	1.00	-							
	19	15400	79.75	92400	1.15	-							
	21	13600	70.38	91700	1.30	-	**K**	**157**	**EDRE**	**225S4**	930	573
	24	11800	61.02	90600	1.50	-	**KF**	**157**	**EDRE**	**225S4**	1010	574
	27	10500	54.29	89500	1.70	-	**KA**	**157**	**EDRE**	**225S4**	890	575
	32	9050	46.79	87700	2.00	-	**KAF**	**157**	**EDRE**	**225S4**	950	574
	39	7350	38.02	85000	2.4	-							
	47	6050	31.30	82100	3.0	-							
	24	12100	62.60	64600	1.05	-							
	27	10400	54.07	64700	1.25	-							
	31	9250	47.82	64400	1.40	-	**K**	**127**	**EDRE**	**225S4**	700	568
	37	7770	40.19	63700	1.65	-	**KF**	**127**	**EDRE**	**225S4**	740	569
	41	7010	36.25	63000	1.85	-	**KA**	**127**	**EDRE**	**225S4**	670	570
	47	6070	31.37	62000	2.1	-	**KAF**	**127**	**EDRE**	**225S4**	710	569
	53	5350	27.68	60900	2.4	-							
	62	4620	23.91	59600	2.8	-							
	47	6050	31.28*	36600	1.05	-							
	51	5610	29.00	37200	1.30	-							
	56	5090	26.32	37700	1.40	-							
	65	4370	22.62	37700	1.65	-							
	75	3820	19.74	37300	1.90	-	**K**	**107**	**EDRE**	**225S4**	540	563
	88	3240	16.75	36700	2.1	-	**KF**	**107**	**EDRE**	**225S4**	550	564
	101	2830	14.64	36100	2.4	-	**KA**	**107**	**EDRE**	**225S4**	520	565
	110	2590	13.43	34300	1.65	-	**KAF**	**107**	**EDRE**	**225S4**	540	564
	126	2260	11.73	33700	1.90	-							
	149	1920	9.94	32900	2.1	-							
	170	1680	8.69	32200	2.4	-							
	78	3660	18.96	20700	1.15	-							
	89	3200	16.56	21000	1.35	-	**K**	**97**	**EDRE**	**225S4**	430	558
	107	2680	13.85	21200	1.55	-	**KF**	**97**	**EDRE**	**225S4**	450	559
	123	2320	11.99	21100	1.70	-	**KA**	**97**	**EDRE**	**225S4**	410	560
	142	2010	10.41	19500	1.35	-	**KAF**	**97**	**EDRE**	**225S4**	435	559
	170	1680	8.71	19400	1.55	-							
37	**6.7**	49500	221	190000	1.00	-							
	7.6	43200	193	190000	1.15	-	**K**	**187R107**	**EDRE**	**225M4**	2100	582
	9.0	36400	163	190000	1.35	-	**KH**	**187R107**	**EDRE**	**225M4**	2030	582
	11	30200	135	150000	1.05	-	**K**	**167R107**	**EDRE**	**225M4**	1520	582
	13	26400	118	150000	1.20	-	**KH**	**167R107**	**EDRE**	**225M4**	1480	582
	8.2	42900	179.86	190000	1.15	-							
	9.0	39400	165.21	190000	1.25	-							
	10	34500	144.59	190000	1.45	-							
	11	30900	129.69	190000	1.60	-	**K**	**187**	**EDRE**	**225M4**	1920	580
	13	26800	112.60	190000	1.85	-	**KH**	**187**	**EDRE**	**225M4**	1860	581
	14	24300	102.16	190000	2.0	-							
	17	21000	88.00	190000	2.4	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
37	**13**	26200	109.83	150000	1.20	-							
	17	20900	87.86	150000	1.55	-							
	19	18600	78.14	150000	1.70	-	**K**	**167**	**EDRE**	**225M4**	1340	578
	22	16200	68.07	150000	1.95	-	**KH**	**167**	**EDRE**	**225M4**	1300	579
	24	14400	60.74	150000	2.2	-						
	29	12300	51.77	150000	2.6	-						
	21	16800	70.38	84800	1.05	-						
	24	14500	61.02	84600	1.25	-	**K**	**157**	**EDRE**	**225M4**	950	573
	27	12900	54.29	84100	1.40	-	**KF**	**157**	**EDRE**	**225M4**	1030	574
	32	11100	46.79	83100	1.60	-	**KA**	**157**	**EDRE**	**225M4**	910	575
	39	9070	38.02	81200	2.00	-	**KAF**	**157**	**EDRE**	**225M4**	970	574
	47	7470	31.30	79000	2.4	-						
	27	12900	54.07	58600	1.00	-						
	31	11400	47.82	59000	1.15	-						
	37	9590	40.19	59100	1.35	-						
	41	8650	36.25	58900	1.50	-						
	47	7480	31.37	58400	1.75	-						
	53	6600	27.68	57800	1.95	-	**K**	**127**	**EDRE**	**225M4**	720	568
	62	5700	23.91	56900	2.3	-	**KF**	**127**	**EDRE**	**225M4**	760	569
	70	5040	21.15	55900	2.6	-	**KA**	**127**	**EDRE**	**225M4**	690	570
	83	4240	17.77	54500	3.1	-	**KAF**	**127**	**EDRE**	**225M4**	720	569
	103	3420	14.35	52500	3.5	M2,4,6						
	116	3050	12.79	50200	2.7	-						
	138	2560	10.74	48600	3.1	-						
	171	2070	8.68	46500	3.5	M2,4,6						
	51	6920	29.00	31000	1.05	-						
	56	6280	26.32	32300	1.15	-						
	65	5390	22.62	33700	1.35	-						
	75	4710	19.74	34400	1.55	-	**K**	**107**	**EDRE**	**225M4**	560	563
	88	3990	16.75	34500	1.75	-	**KF**	**107**	**EDRE**	**225M4**	570	564
	101	3490	14.64	34100	1.95	-	**KA**	**107**	**EDRE**	**225M4**	540	565
	110	3200	13.43	32300	1.35	-	**KAF**	**107**	**EDRE**	**225M4**	560	564
	126	2790	11.73	31900	1.55	-						
	149	2370	9.94	31400	1.75	-						
	170	2070	8.69	30800	1.95	-						
45	**9.0**	44400	163	190000	1.10	-	**K**	**187R107**	**EDRE**	**225M4**	2100	582
							KH	**187R107**	**EDRE**	**225M4**	2030	582
	9.0	47900	165.21	190000	1.05	-						
	10	41900	144.59	190000	1.20	-						
	11	37600	129.69	190000	1.35	-						
	13	32600	112.60	189900	1.55	-	**K**	**187**	**EDRE**	**225M4**	1920	580
	14	29600	102.16	187600	1.70	-	**KH**	**187**	**EDRE**	**225M4**	1860	581
	17	25500	88.00	183700	1.95	-						
	20	21400	73.96	178700	2.3	-						
	13	31800	109.83	150000	1.00	-						
	17	25500	87.86	150000	1.25	-						
	19	22600	78.14	150000	1.40	-						
	22	19700	68.07	150000	1.60	-	**K**	**167**	**EDRE**	**225M4**	1340	578
	24	17600	60.74	148900	1.80	-	**KH**	**167**	**EDRE**	**225M4**	1300	579
	29	15000	51.77	145200	2.1	-						
	34	12400	42.89	140400	2.6	-						

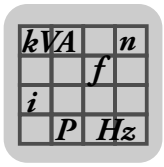
P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
45	**24**	17700	61.02	77700	1.00	-							
	27	15700	54.29	78000	1.15	-							
	32	13500	46.79	77800	1.30	-							
	39	11000	38.02	76900	1.65	M2	**K**	**157**	**EDRE**	**225M4**		950	573
	47	9080	31.30	75400	2.00	-	**KF**	**157**	**EDRE**	**225M4**		1030	574
	54	8020	27.62	74300	2.2	-	**KA**	**157**	**EDRE**	**225M4**		910	575
	62	6950	23.95	72800	2.6	-	**KAF**	**157**	**EDRE**	**225M4**		970	574
	69	6180	21.31	71400	2.9	-							
	81	5330	18.37	69600	3.4	-							
	37	11600	40.19	53900	1.10	M2-6							
	41	10500	36.25	54200	1.25	-							
	47	9100	31.37	54400	1.45	-							
	53	8030	27.68	54200	1.60	-							
	62	6930	23.91	53800	1.85	-	**K**	**127**	**EDRE**	**225M4**		720	568
	70	6130	21.15	53200	2.1	-	**KF**	**127**	**EDRE**	**225M4**		760	569
	83	5150	17.77	52200	2.5	-	**KA**	**127**	**EDRE**	**225M4**		690	570
	103	4160	14.35	50600	2.9	M2,4,6	**KAF**	**127**	**EDRE**	**225M4**		720	569
	116	3710	12.79	48300	2.2	-							
	138	3110	10.74	47000	2.6	-							
	171	2510	8.68	45200	2.9	M2,4,6							
	65	6560	22.62	28100	1.10	-							
	75	5730	19.74	29800	1.25	-							
	88	4860	16.75	31100	1.45	-	**K**	**107**	**EDRE**	**225M4**		560	563
	101	4240	14.64	31700	1.60	-	**KF**	**107**	**EDRE**	**225M4**		570	564
	110	3890	13.43	29900	1.10	-	**KA**	**107**	**EDRE**	**225M4**		540	565
	126	3400	11.73	29900	1.25	-	**KAF**	**107**	**EDRE**	**225M4**		560	564
	149	2880	9.94	29600	1.45	-							
	170	2520	8.69	29300	1.60	-							
55	**11**	46100	129.69	179700	1.10	-							
	13	40000	112.60	178600	1.25	-							
	14	36300	102.16	177400	1.35	-	**K**	**187**	**DV**	**250M4**		2070	580
	17	31300	88.00	175000	1.60	-	**KH**	**187**	**DV**	**250M4**		2000	581
	20	26300	73.96	171400	1.90	-							
	23	22800	64.04	167900	2.2	-							
	17	31200	87.86	145300	1.00	-							
	19	27800	78.14	144600	1.15	-							
	22	24200	68.07	143300	1.30	-							
	24	21600	60.74	141700	1.50	-	**K**	**167**	**DV**	**250M4**		1480	578
	28	18400	51.77	139100	1.75	-	**KH**	**167**	**DV**	**250M4**		1450	579
	34	15200	42.89	135400	2.1	-							
	40	13000	36.61	131900	2.4	-							
	32	16600	46.79	71200	1.10	-							
	39	13500	38.02	71500	1.35	M2,4,6							
	47	11100	31.30	71000	1.60	-							
	53	9830	27.62	70400	1.85	-	**K**	**157**	**DV**	**250M4**		1090	573
	62	8520	23.95	69400	2.1	-	**KF**	**157**	**DV**	**250M4**		1170	574
	69	7580	21.31	68400	2.4	-	**KA**	**157**	**DV**	**250M4**		1050	575
	80	6530	18.37	67000	2.8	-	**KAF**	**157**	**DV**	**250M4**		1110	574
	99	5310	14.92	64800	3.4	-							
	117	4500	12.65	62900	3.8	M2,4,6							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
55	**47**	11100	31.37	49300	1.15	-								
	53	9850	27.68	49700	1.30	-	X							
	62	8510	23.91	49900	1.55	-								
	70	7520	21.15	49800	1.75	-		**K**	**127**	**DV**	**250M4**		850	568
	83	6320	17.77	49300	2.0	-		**KF**	**127**	**DV**	**250M4**		890	569
	103	5100	14.35	48300	2.4	-		**KA**	**127**	**DV**	**250M4**		820	570
	115	4550	12.79	45900	1.85	-		**KAF**	**127**	**DV**	**250M4**		860	569
	137	3820	10.74	45000	2.1	-								
	170	3080	8.68	43600	2.3	-								
75	**14**	49400	102.16	157000	1.00	-								
	17	42500	88.00	157400	1.15	-								
	20	35700	73.96	156600	1.40	-		**K**	**187**	**DV**	**280S4**		2200	580
	23	30900	64.04	155000	1.60	-		**KH**	**187**	**DV**	**280S4**		2130	581
	28	25800	53.36	152200	1.95	-								
	33	22000	45.50*	149100	2.3	M2,4,6								
	24	29300	60.74	127300	1.10	-								
	29	25000	51.77	126800	1.30	-								
	34	20700	42.89	125200	1.55	-								
	40	17700	36.61	123200	1.80	M2,4,6		**K**	**167**	**DV**	**280S4**		1620	578
	46	15600	32.25	121300	2.0	-		**KH**	**167**	**DV**	**280S4**		1580	579
	51	13900	28.77	119300	2.3	-								
	60	11800	24.52	116300	2.7	-								
	47	15100	31.30	62200	1.20	-								
	54	13300	27.62	62600	1.35	-								
	62	11500	23.95	62600	1.55	-		**K**	**157**	**DV**	**280S4**		1220	573
	69	10300	21.31	62400	1.75	-		**KF**	**157**	**DV**	**280S4**		1300	574
	81	8880	18.37	61800	2.0	-		**KA**	**157**	**DV**	**280S4**		1190	575
	99	7220	14.92	60500	2.5	M2,4,6		**KAF**	**157**	**DV**	**280S4**		1250	574
	117	6120	12.65	59300	2.8	M2-6								
	62	11500	23.91	42200	1.10	-								
	70	10200	21.15	42900	1.25	-								
	83	8590	17.77	43600	1.50	-		**K**	**127**	**DV**	**280S4**		990	568
	103	6940	14.35	43700	1.75	M2,4,6		**KF**	**127**	**DV**	**280S4**		1030	569
	116	6180	12.79	41100	1.35	-		**KA**	**127**	**DV**	**280S4**		960	570
	138	5190	10.74	41000	1.55	-		**KAF**	**127**	**DV**	**280S4**		1000	569
	171	4190	8.68	40400	1.70	M2,4,6								

9.4 Selection tables for helical-worm gearmotors /3GD T3

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.12	**0.16**	3590	8608	34000	1.15	-	X	**S**	**97R57**	**DR**	**63S4**	170	617
	0.18	3180	7554	34700	1.30	-	X	**SF**	**97R57**	**DR**	**63S4**	200	617
								SA	**97R57**	**DR**	**63S4**	160	617
								SAF	**97R57**	**DR**	**63S4**	190	617
	0.23	2400	5875	27700	1.05	-		**S**	**87R57**	**DR**	**63S4**	110	617
	0.27	1980	5187	28500	1.25	-	X	**SF**	**87R57**	**DR**	**63S4**	130	617
	0.30	1760	4606	28800	1.40	-	X	**SA**	**87R57**	**DR**	**63S4**	105	617
	0.36	1460	3872	29200	1.70	-	X	**SAF**	**87R57**	**DR**	**63S4**	120	617
	0.45	1200	3098	12300	1.05	-							
	0.66	1160	2083	12600	1.05	-							
	0.76	980	1813	13900	1.25	-	X	**S**	**77R37**	**DR**	**63S4**	59	617
	0.79	930	1745	14200	1.30	-	X	**SF**	**77R37**	**DR**	**63S4**	68	617
	0.86	860	1600	14600	1.45	-	X	**SA**	**77R37**	**DR**	**63S4**	58	617
	0.98	755	1404	15100	1.65	-	X	**SAF**	**77R37**	**DR**	**63S4**	65	617
	1.1	660	1245	15500	1.90	-	X						
	1.3	530	1045	8560	1.05	-		**S**	**67R37**	**DR**	**63S4**	39	617
	1.5	455	914	9180	1.25	-	X	**SF**	**67R37**	**DR**	**63S4**	46	617
								SA	**67R37**	**DR**	**63S4**	40	617
								SAF	**67R37**	**DR**	**63S4**	45	617
	1.7	415	809	9460	1.35	-	X						
	1.9	365	712	9780	1.55	-	X						
	2.2	305	615	10100	1.85	-	X	**S**	**67R37**	**DR**	**63S4**	39	617
	2.5	275	543	10200	2.1	-	X	**SF**	**67R37**	**DR**	**63S4**	46	617
	2.9	225	469	10400	2.5	-	X	**SA**	**67R37**	**DR**	**63S4**	40	617
	3.3	200	424	10500	2.8	-		**SAF**	**67R37**	**DR**	**63S4**	45	617
	3.8	187	365	10500	3.0	-							
	2.4	285	574	7200	1.05	-							
	2.7	250	506	7480	1.20	-	X						
	3.2	215	438	7700	1.40	-	X	**S**	**57R17**	**DR**	**63S4**	20	617
	3.6	189	388	7850	1.60	-	X	**SF**	**57R17**	**DR**	**63S4**	24	617
	4.1	169	336	7950	1.80	-	X	**SA**	**57R17**	**DR**	**63S4**	20	617
	4.7	145	294	8050	2.1	-	X	**SAF**	**57R17**	**DR**	**63S4**	23	617
	5.1	139	269	8070	2.2	-							
	4.1	168	336	5290	1.10	-							
	4.7	143	294	5420	1.30	-	X	**S**	**47R17**	**DR**	**63S4**	17	617
	5.4	98	257	5660	1.90	-	X	**SF**	**47R17**	**DR**	**63S4**	20	617
	6.0	118	229	5550	1.55	-	X	**SA**	**47R17**	**DR**	**63S4**	18	617
	6.9	102	200	5610	1.80	-	X	**SAF**	**47R17**	**DR**	**63S4**	19	617
	7.4	96	187	5640	1.95	-	X						
	7.7	91	179	3000	1.00	-							
	8.7	82	158	3000	1.15	-		**S**	**37R17**	**DR**	**63S4**	14	617
	9.6	75	144	3000	1.20	-	X	**SF**	**37R17**	**DR**	**63S4**	15	617
	12	61	118	3000	1.50	-	X	**SA**	**37R17**	**DR**	**63S4**	13	617
	13	57	110	3000	1.60	-	X	**SAF**	**37R17**	**DR**	**63S4**	15	617
	6.9	99	201.00*	8190	3.0	-		**S**	**57**	**DR**	**63S4**	17	592
	7.5	92	184.80*	8210	3.2	-		**SF**	**57**	**DR**	**63S4**	21	593
	8.7	80	158.12	8240	3.7	-		**SA**	**57**	**DR**	**63S4**	17	594
	10	71	137.05	8250	4.2	-		**SAF**	**57**	**DR**	**63S4**	20	593
	6.9	95	201.00*	5680	1.80	-	X						
	7.5	89	184.80*	5700	1.90	-	X	**S**	**47**	**DR**	**63S4**	14	587
	8.7	77	158.12	5740	2.2	-		**SF**	**47**	**DR**	**63S4**	17	588
	10	68	137.05	5780	2.5	-		**SA**	**47**	**DR**	**63S4**	15	589
	11	64	128.10*	5790	2.6	-		**SAF**	**47**	**DR**	**63S4**	16	588
	12	57	110.73	5810	3.0	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.12	**8.8**	74	157.43	3000	1.25	-	X						
	9.6	68	144.40*	3000	1.35	-	X						
	11	60	122.94	3000	1.55	-	X						
	13	52	106.00*	3000	1.70	-	X						
	14	49	98.80*	3000	1.75	-	X						
	16	44	86.36	3000	1.95	-	X						
	17	41	80.96	3000	2.1	-	X						
	19	37	71.44*	3000	2.3	-	X						
	22	33	63.33	3000	2.5	-							
	25	35	55.93	3000	2.3	-		**S**	**37**	**DR**	**63S4**	11	583
	27	33	51.30*	3000	2.5	-		**SF**	**37**	**DR**	**63S4**	12	584
	32	28	43.68	3000	2.9	-		**SA**	**37**	**DR**	**63S4**	10	585
	37	24	37.66	3000	3.2	-		**SAF**	**37**	**DR**	**63S4**	12	584
	39	23	35.10*	3000	3.4	-							
	45	20	30.68	3000	3.7	-							
	48	19	28.76	3000	3.9	-							
	54	17	25.38*	3000	4.4	-							
	61	15	22.50*	3000	4.8	-							
	69	14	19.89	3000	3.6	-							
	76	13	18.24*	3000	3.9	-							
	89	11	15.53	2870	4.4	-							
0.18	**0.38**	2420	3475	27700	1.05	-							
	0.45	2030	2905	28400	1.25	-	X						
	0.51	1760	2586	28800	1.40	-	X	**S**	**87R57**	**DR**	**63M4**	105	617
	0.57	1570	2335	29100	1.60	-	X	**SF**	**87R57**	**DR**	**63M4**	130	617
	0.64	1360	2054	29300	1.85	-	X	**SA**	**87R57**	**DR**	**63M4**	105	617
	0.72	1200	1824	29500	2.1	-	X	**SAF**	**87R57**	**DR**	**63M4**	120	617
	0.81	1080	1631	29600	2.3	-	X						
	1.1	1090	1245	13200	1.15	-		**S**	**77R37**	**DR**	**63M4**	59	617
								SF	**77R37**	**DR**	**63M4**	68	617
								SA	**77R37**	**DR**	**63M4**	58	617
								SAF	**77R37**	**DR**	**63M4**	65	617
	1.2	1020	1100	13700	1.20	-	X						
	1.4	870	954	14500	1.40	-	X	**S**	**77R37**	**DR**	**63M4**	58	617
	1.6	770	837	15000	1.60	-	X	**SF**	**77R37**	**DR**	**63M4**	68	617
	1.8	640	714	15600	1.95	-		**SA**	**77R37**	**DR**	**63M4**	58	617
	2.1	565	637	15800	2.2	-		**SAF**	**77R37**	**DR**	**63M4**	65	617
	2.3	515	574	16000	2.4	-							
	2.2	505	615	8800	1.15	-							
	2.4	450	543	9230	1.25	-	X	**S**	**67R37**	**DR**	**63M4**	39	617
	2.8	375	469	9720	1.50	-	X	**SF**	**67R37**	**DR**	**63M4**	46	617
	3.1	340	424	9930	1.65	-	X	**SA**	**67R37**	**DR**	**63M4**	40	617
	3.6	305	365	10100	1.85	-		**SAF**	**67R37**	**DR**	**63M4**	45	617
	3.9	275	336	7290	1.10	-							
	4.5	235	294	7560	1.25	-	X	**S**	**57R17**	**DR**	**63M4**	20	617
	4.9	225	269	7650	1.35	-	X	**SF**	**57R17**	**DR**	**63M4**	24	617
	5.8	193	229	7830	1.55	-	X	**SA**	**57R17**	**DR**	**63M4**	20	617
	6.5	174	204	7920	1.75	-		**SAF**	**57R17**	**DR**	**63M4**	23	617
	7.0	159	187	7990	1.90	-							
	5.1	162	257	5380	1.15	-							
	6.6	167	200	5300	1.10	-		**S**	**47R17**	**DR**	**63M4**	17	617
	7.0	156	187	5360	1.20	-	X	**SF**	**47R17**	**DR**	**63M4**	20	617
	8.0	138	165	5450	1.35	-	X	**SA**	**47R17**	**DR**	**63M4**	18	617
	9.0	124	148	5520	1.50	-	X	**SAF**	**47R17**	**DR**	**63M4**	19	617
	10	110	131	5580	1.70	-							



P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.18	**6.1**	175	217.41	10600	3.0	-		**S**	**67**	**DR**	**63M4**		28	597
	6.9	156	190.11	10600	3.3	-		**SF**	**67**	**DR**	**63M4**		35	598
	7.3	149	180.60*	10600	3.5	-		**SA**	**67**	**DR**	**63M4**		29	599
								SAF	**67**	**DR**	**63M4**		34	598
	6.6	154	201.00*	8010	1.90	-	X	**S**	**57**	**DR**	**63M4**		17	592
	7.1	143	184.80*	8050	2.1	-		**SF**	**57**	**DR**	**63M4**		21	593
	8.4	125	158.12	8120	2.4	-		**SA**	**57**	**DR**	**63M4**		17	594
	9.6	110	137.05	8160	2.7	-		**SAF**	**57**	**DR**	**63M4**		20	593
	6.6	149	201.00*	5440	1.15	-								
	7.1	138	184.80*	5490	1.25	-	X							
	8.4	121	158.12	5570	1.40	-	X							
	9.6	106	137.05	5630	1.60	-	X	**S**	**47**	**DR**	**63M4**		14	587
	10	100	128.10*	5660	1.65	-	X	**SF**	**47**	**DR**	**63M4**		17	588
	12	88	110.73	5700	1.90	-		**SA**	**47**	**DR**	**63M4**		15	589
	14	77	94.08*	5750	2.2	-		**SAF**	**47**	**DR**	**63M4**		16	588
	16	69	84.00*	5770	2.4	-								
	18	60	71.75*	5800	2.8	-								
	19	69	69.39	5750	2.2	-								
	12	82	106.00*	3000	1.10	-								
	13	77	98.80*	3000	1.15	-								
	15	68	86.36	3000	1.25	-	X							
	16	64	80.96	3000	1.30	-	X							
	18	58	71.44*	3000	1.45	-	X							
	21	52	63.33	3000	1.60	-	X							
	24	55	55.93	3000	1.45	-								
	26	51	51.30*	3000	1.60	-								
	30	44	43.68	3000	1.85	-								
	35	38	37.66	3000	2.1	-		**S**	**37**	**DR**	**63M4**		11	583
	38	36	35.10*	3000	2.2	-		**SF**	**37**	**DR**	**63M4**		12	584
	43	32	30.68	3000	2.4	-		**SA**	**37**	**DR**	**63M4**		10	585
	46	30	28.76	3000	2.5	-		**SAF**	**37**	**DR**	**63M4**		12	584
	52	26	25.38*	3000	2.8	-								
	59	24	22.50*	3000	3.1	-								
	66	22	19.89	3000	2.3	-								
	72	21	18.24*	2940	2.5	-								
	85	18	15.53	2810	2.8	-								
	99	15	13.39	2700	3.2	-								
	106	14	12.48*	2650	3.4	-								
	121	13	10.91	2550	3.8	-								
	129	12	10.23	2500	4.0	-								
0.25	**0.54**	2350	2586	27800	1.05	-								
	0.60	2100	2335	28300	1.20	-	X	**S**	**87R57**	**EDRS**	**71S4**		110	617
	0.68	1830	2054	28700	1.35	-	X	**SF**	**87R57**	**EDRS**	**71S4**		130	617
	0.77	1620	1824	29000	1.55	-	X	**SA**	**87R57**	**EDRS**	**71S4**		110	617
	0.86	1450	1631	29200	1.70	-	X	**SAF**	**87R57**	**EDRS**	**71S4**		125	617
	1.5	850	930	29800	2.9	-								
	1.5	1160	954	12700	1.05	-								
	1.7	1010	837	13700	1.20	-	X	**S**	**77R37**	**EDRS**	**71S4**		61	617
	2.0	850	714	14600	1.45	-	X	**SF**	**77R37**	**EDRS**	**71S4**		71	617
	2.2	755	637	15100	1.65	-		**SA**	**77R37**	**EDRS**	**71S4**		61	617
	2.4	685	574	15400	1.80	-		**SAF**	**77R37**	**EDRS**	**71S4**		67	617
	2.8	585	499	15800	2.1	-								
	3.0	505	469	8810	1.15	-								
	3.3	455	424	9200	1.25	-	X	**S**	**67R37**	**EDRS**	**71S4**		42	617
	3.8	405	365	9540	1.40	-	X	**SF**	**67R37**	**EDRS**	**71S4**		48	617
	4.4	350	319	9860	1.60	-		**SA**	**67R37**	**EDRS**	**71S4**		43	617
	5.0	305	281	10100	1.85	-		**SAF**	**67R37**	**EDRS**	**71S4**		47	617

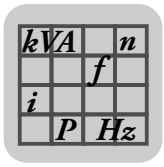
P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.25	**5.2**	295	269	7100	1.00	-							
	6.2	255	229	7440	1.15	-		**S**	**57R17**	**EDRS**	**71S4**	23	617
	6.9	230	204	7610	1.30	-		**SF**	**57R17**	**EDRS**	**71S4**	27	617
	7.5	210	187	7730	1.40	-		**SA**	**57R17**	**EDRS**	**71S4**	23	617
	8.5	187	165	7860	1.60	-		**SAF**	**57R17**	**EDRS**	**71S4**	25	617
	11	150	131	8030	2.0	-							
	6.5	230	217.41	10400	2.2	-							
	7.4	200	190.11	10500	2.5	-							
	7.8	196	180.60*	10500	2.7	-		**S**	**67**	**EDRS**	**71S4**	32	597
	8.9	174	158.45	10600	3.0	-		**SF**	**67**	**EDRS**	**71S4**	38	598
	10	150	134.40*	10600	3.5	-		**SA**	**67**	**EDRS**	**71S4**	33	599
	12	137	121.33	10600	3.8	-		**SAF**	**67**	**EDRS**	**71S4**	37	598
	13	122	106.75*	10700	4.2	-							
	7.0	200	201.00*	7780	1.45	-	X						
	7.6	188	184.80*	7860	1.55	-	X						
	8.9	164	158.12	7970	1.80	-		**S**	**57**	**EDRS**	**71S4**	20	592
	10	145	137.05	8050	2.0	-		**SF**	**57**	**EDRS**	**71S4**	24	593
	11	136	128.10*	8080	2.2	-		**SA**	**57**	**EDRS**	**71S4**	20	594
	13	120	110.73	8130	2.5	-		**SAF**	**57**	**EDRS**	**71S4**	23	593
	15	104	94.08*	8180	2.8	-							
	17	94	84.00*	8210	3.1	-							
	8.9	159	158.12	5400	1.05	-							
	10	140	137.05	5490	1.20	-							
	11	132	128.10*	5520	1.25	-							
	13	116	110.73	5590	1.45	-							
	15	101	94.08*	5660	1.65	-		**S**	**47**	**EDRS**	**71S4**	16	587
	17	91	84.00*	5690	1.85	-		**SF**	**47**	**EDRS**	**71S4**	20	588
	20	79	71.75*	5740	2.1	-		**SA**	**47**	**EDRS**	**71S4**	17	589
	20	91	69.39	5670	1.70	-		**SAF**	**47**	**EDRS**	**71S4**	19	588
	21	75	67.20*	5750	2.2	-							
	22	84	63.80*	5700	1.85	-							
	26	72	54.59	5740	2.1	-							
	30	64	47.32	5660	2.4	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.25	**17**	85	80.96	3000	1.00	-							
	20	76	71.44*	3000	1.10	-							
	22	68	63.33	3000	1.20	-	X						
	25	72	55.93	3000	1.10	-							
	27	67	51.30*	3000	1.20	-							
	32	58	43.68	3000	1.40	-							
	37	50	37.66	3000	1.55	-							
	40	47	35.10*	3000	1.65	-							
	46	42	30.68	3000	1.85	-							
	49	39	28.76	3000	1.90	-							
	55	35	25.38*	3000	2.1	-							
	62	31	22.50*	3000	2.4	-		**S**	**37**	**EDRS**	**71S4**	13	583
	71	29	19.89	2820	1.75	-		**SF**	**37**	**EDRS**	**71S4**	15	584
	77	27	18.24*	2770	1.95	-		**SA**	**37**	**EDRS**	**71S4**	13	585
	90	23	15.53	2660	2.2	-		**SAF**	**37**	**EDRS**	**71S4**	15	584
	105	20	13.39	2570	2.4	-							
	113	19	12.48*	2520	2.6	-							
	129	16	10.91	2430	2.9	-							
	137	16	10.23	2390	3.0	-							
	156	14	9.02*	2310	3.4	-							
	176	12	8.00*	2240	3.7	-							
	207	10	6.80*	2140	4.1	-							
	222	9.8	6.33	2080	3.6	-							
	261	8.3	5.38	1990	4.1	-							
	289	7.5	4.86*	1930	4.4	-							
	354	6.2	3.97	1820	5.2	-							
0.37	**0.84**	2270	1631	27900	1.10	-		**S**	**87R57**	**EDRS**	**71M4**	115	617
	1.5	1340	930	29400	1.85	-	X	**SF**	**87R57**	**EDRS**	**71M4**	135	617
	1.6	1210	831	29500	2.1	-	X	**SA**	**87R57**	**EDRS**	**71M4**	110	617
								SAF	**87R57**	**EDRS**	**71M4**	125	617
	2.2	1170	637	12600	1.05	-							
	2.4	1060	574	13400	1.15	-		**S**	**77R37**	**EDRS**	**71M4**	62	617
	2.8	910	499	14300	1.35	-		**SF**	**77R37**	**EDRS**	**71M4**	72	617
	3.1	800	438	14900	1.55	-		**SA**	**77R37**	**EDRS**	**71M4**	62	617
	3.5	710	389	15300	1.75	-		**SAF**	**77R37**	**EDRS**	**71M4**	68	617
	4.3	545	319	8430	1.05	-		**S**	**67R37**	**EDRS**	**71M4**	43	617
	4.9	480	281	9010	1.20	-		**SF**	**67R37**	**EDRS**	**71M4**	49	617
	5.6	430	246	9370	1.30	-		**SA**	**67R37**	**EDRS**	**71M4**	44	617
								SAF	**67R37**	**EDRS**	**71M4**	48	617
	5.4	440	256.47	16000	2.9	-		**S**	**77**	**EDRS**	**71M4**	54	602
	6.1	390	225.26	16000	3.2	-		**SF**	**77**	**EDRS**	**71M4**	64	603
	6.4	370	214.00*	16000	3.4	-		**SA**	**77**	**EDRS**	**71M4**	54	604
								SAF	**77**	**EDRS**	**71M4**	60	603
	6.3	345	217.41	9890	1.50	-							
	7.2	305	190.11	10100	1.70	-		**S**	**67**	**EDRS**	**71M4**	34	597
	7.6	295	180.60*	10100	1.75	-		**SF**	**67**	**EDRS**	**71M4**	41	598
	8.7	260	158.45	10300	2.00	-		**SA**	**67**	**EDRS**	**71M4**	35	599
	10	225	134.40*	10400	2.3	-		**SAF**	**67**	**EDRS**	**71M4**	40	598
	11	205	121.33	10500	2.5	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.37	**7.4**	280	184.80*	7220	1.05	-								
	8.7	245	158.12	7500	1.20	-	X							
	10	215	137.05	7690	1.35	-								
	11	205	128.10*	7760	1.45	-								
	12	181	110.73	7890	1.65	-		**S**	**57**	**EDRS**	**71M4**		21	592
	15	156	94.08*	8000	1.85	-		**SF**	**57**	**EDRS**	**71M4**		25	593
	16	142	84.00*	8060	2.0	-		**SA**	**57**	**EDRS**	**71M4**		21	594
	19	123	71.75*	8120	2.3	-		**SAF**	**57**	**EDRS**	**71M4**		24	593
	20	139	69.39	8070	1.75	-								
	20	116	67.20*	8150	2.4	-								
	22	129	63.80*	8100	1.90	-								
	15	152	94.08*	5430	1.10	-								
	16	137	84.00*	5500	1.20	-								
	19	119	71.75*	5580	1.40	-								
	20	137	69.39	5460	1.15	-								
	20	113	67.20*	5610	1.50	-								
	22	127	63.80*	5510	1.20	-								
	25	110	54.59	5590	1.40	-								
	29	96	47.32	5420	1.60	-		**S**	**47**	**EDRS**	**71M4**		17	587
	31	90	44.22*	5330	1.70	-		**SF**	**47**	**EDRS**	**71M4**		21	588
	36	79	38.23	5140	1.95	-		**SA**	**47**	**EDRS**	**71M4**		18	589
	42	67	32.48*	4940	2.3	-		**SAF**	**47**	**EDRS**	**71M4**		20	588
	47	61	29.00*	4790	2.6	-								
	56	52	24.77	4600	2.9	-								
	59	49	23.20*	4520	3.1	-								
	68	46	20.33	4180	2.4	-								
	78	40	17.62	4030	2.8	-								
	83	37	16.47*	3960	2.9	-								
	37	76	37.66	3000	1.05	-								
	39	71	35.10*	3000	1.10	-								
	45	63	30.68	3000	1.20	-								
	48	59	28.76	3000	1.25	-								
	54	52	25.38*	2940	1.40	-								
	61	47	22.50*	2870	1.55	-								
	69	44	19.89	2610	1.15	-								
	75	41	18.24*	2570	1.25	-								
	89	35	15.53	2500	1.45	-		**S**	**37**	**EDRS**	**71M4**		14	583
	103	30	13.39	2420	1.60	-		**SF**	**37**	**EDRS**	**71M4**		16	584
	110	28	12.48*	2390	1.70	-		**SA**	**37**	**EDRS**	**71M4**		14	585
	126	25	10.91	2320	1.95	-		**SAF**	**37**	**EDRS**	**71M4**		16	584
	134	23	10.23	2290	2.0	-								
	152	21	9.02*	2220	2.2	-								
	172	18	8.00*	2160	2.4	-								
	202	16	6.80*	2070	2.7	-								
	217	15	6.33	2020	2.4	-								
	255	13	5.38	1940	2.7	-								
	283	11	4.86*	1880	2.9	-								
	347	9.3	3.97	1780	3.4	-								
0.55	**1.2**	2470	1191	27600	1.00	-								
	1.4	2150	1032	28200	1.15	-								
	1.5	1990	930	28500	1.25	-	X	**S**	**87R57**	**EDRS**	**80S4**		115	617
	1.7	1790	831	28800	1.40	-	X	**SF**	**87R57**	**EDRS**	**80S4**		135	617
	2.0	1560	719	29100	1.60	-	X	**SA**	**87R57**	**EDRS**	**80S4**		110	617
	2.3	1360	624	29300	1.85	-	X	**SAF**	**87R57**	**EDRS**	**80S4**		130	617
	2.5	1230	558	29500	2.0	-								
	3.3	980	435	29700	2.5	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.55	**3.2**	1170	438	12500	1.05	-							
	3.6	1040	389	13500	1.20	-	**S**	**77R37**	**EDRS**	**80S4**	65	617
	4.3	880	327	14500	1.40	-	**SF**	**77R37**	**EDRS**	**80S4**	75	617
	4.9	795	289	14900	1.55	-	**SA**	**77R37**	**EDRS**	**80S4**	65	617
	5.7	690	250	15400	1.80	-	**SAF**	**77R37**	**EDRS**	**80S4**	71	617
	6.4	565	221	8230	1.00	-	**S**	**67R37**	**EDRS**	**80S4**	46	617
	7.2	515	198	8700	1.10	-	**SF**	**67R37**	**EDRS**	**80S4**	52	617
	8.4	440	168	9300	1.30	-	**SA**	**67R37**	**EDRS**	**80S4**	47	617
							SAF	**67R37**	**EDRS**	**80S4**	51	617
	4.9	750	288.00*	29900	3.0	-	**S**	**87**	**EDRS**	**80S4**	91	607
	5.5	680	258.18	29900	3.4	-	**SF**	**87**	**EDRS**	**80S4**	110	608
	6.4	590	222.40*	30000	3.8	-	**SA**	**87**	**EDRS**	**80S4**	88	609
	7.0	545	202.96	30000	4.0	-	**SAF**	**87**	**EDRS**	**80S4**	105	608
	5.5	635	256.47	15600	2.00	-						
	6.3	565	225.26	15800	2.2	-	**S**	**77**	**EDRS**	**80S4**	55	602
	6.6	540	214.00*	15900	2.3	-	**SF**	**77**	**EDRS**	**80S4**	65	603
	7.5	485	189.09	16000	2.6	-	**SA**	**77**	**EDRS**	**80S4**	54	604
	8.8	420	161.60*	16000	3.0	-	**SAF**	**77**	**EDRS**	**80S4**	61	603
	6.5	500	217.41	8820	1.05	-						
	7.4	445	190.11	9270	1.15	-						
	7.8	425	180.60*	9410	1.20	-						
	8.9	380	158.45	9700	1.35	-						
	11	325	134.40*	9990	1.60	-	**S**	**67**	**EDRS**	**80S4**	35	597
	12	300	121.33	10100	1.75	-	**SF**	**67**	**EDRS**	**80S4**	42	598
	13	265	106.75*	10300	1.95	-	**SA**	**67**	**EDRS**	**80S4**	36	599
	14	250	100.80*	10300	2.0	-	**SAF**	**67**	**EDRS**	**80S4**	41	598
	16	215	85.83	10400	2.4	-						
	19	220	75.06	10400	2.2	-						
	22	197	65.63	10500	2.4	-						
	13	260	110.73	7400	1.15	-						
	15	225	94.08*	7640	1.30	-						
	17	205	84.00*	7770	1.40	-						
	20	178	71.75*	7910	1.60	-						
	21	168	67.20*	7950	1.65	-						
	26	161	54.59	7980	1.50	-	**S**	**57**	**EDRS**	**80S4**	24	592
	30	141	47.32	8060	1.75	-	**SF**	**57**	**EDRS**	**80S4**	28	593
	32	132	44.22*	8090	1.85	-	**SA**	**57**	**EDRS**	**80S4**	24	594
	37	115	38.23	8150	2.1	-	**SAF**	**57**	**EDRS**	**80S4**	27	593
	44	99	32.48*	7880	2.5	-						
	49	89	29.00*	7640	2.8	-						
	57	76	24.77	7310	3.2	-						
	61	72	23.20*	7170	3.3	-						
	70	67	20.33	6690	2.5	-						
	21	163	67.20*	5380	1.00	-						
	30	139	47.32	4970	1.10	-						
	32	130	44.22*	4910	1.20	-						
	37	114	38.23	4780	1.35	-						
	44	98	32.48*	4610	1.60	-						
	49	88	29.00*	4500	1.75	-						
	57	76	24.77	4340	2.0	-	**S**	**47**	**EDRS**	**80S4**	20	587
	61	71	23.20*	4270	2.1	-	**SF**	**47**	**EDRS**	**80S4**	24	588
	70	66	20.33	3890	1.65	-	**SA**	**47**	**EDRS**	**80S4**	21	589
	80	58	17.62	3770	1.90	-	**SAF**	**47**	**EDRS**	**80S4**	23	588
	86	54	16.47*	3720	2.0	-						
	99	47	14.24	3600	2.3	-						
	117	40	12.10*	3460	2.7	-						
	131	36	10.80*	3370	3.0	-						
	153	31	9.23*	3240	3.5	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.55	**63**	68	22.50*	2580	1.10	-							
	74	58	19.13*	2520	1.20	-							
	106	44	13.39	2180	1.10	-							
	113	41	12.48*	2160	1.15	-							
	130	36	10.91	2120	1.35	-							
	138	34	10.23	2100	1.40	-		**S**	**37**	**EDRS**	**80S4**	17	583
	157	30	9.02*	2050	1.55	-		**SF**	**37**	**EDRS**	**80S4**	19	584
	177	27	8.00*	2000	1.70	-		**SA**	**37**	**EDRS**	**80S4**	17	585
	208	23	6.80*	1940	1.90	-		**SAF**	**37**	**EDRS**	**80S4**	19	584
	223	21	6.33	1890	1.65	-							
	263	18	5.38	1820	1.85	-							
	291	16	4.86*	1780	2.0	-							
	357	14	3.97	1690	2.4	-							
0.75	**1.3**	4130	1070	32200	1.00	-							
	1.6	3550	928	34000	1.20	-	X						
	1.7	3140	824	34700	1.35	-		**S**	**97R57**	**EDRE**	**80M4**	175	617
	2.0	2240	714	35900	1.85	-	X	**SF**	**97R57**	**EDRE**	**80M4**	210	617
	2.3	2380	626	35800	1.75	-		**SA**	**97R57**	**EDRE**	**80M4**	170	617
	2.7	2040	538	36100	2.0	-		**SAF**	**97R57**	**EDRE**	**80M4**	195	617
	3.0	1850	484	36300	2.3	-							
	1.7	2450	831	27600	1.00	-							
	2.0	2130	719	28200	1.15	-	X	**S**	**87R57**	**EDRE**	**80M4**	115	617
	2.3	1860	624	28700	1.35	-	X	**SF**	**87R57**	**EDRE**	**80M4**	140	617
	2.6	1680	558	28900	1.50	-	X	**SA**	**87R57**	**EDRE**	**80M4**	115	617
	3.3	1340	435	29300	1.80	-	X	**SAF**	**87R57**	**EDRE**	**80M4**	130	617
	4.4	1030	323	29700	2.3	-							
	4.4	1200	327	12300	1.05	-		**S**	**77R37**	**EDRE**	**80M4**	68	617
	5.0	1080	289	13200	1.15	-		**SF**	**77R37**	**EDRE**	**80M4**	77	617
	5.7	930	250	14200	1.30	-		**SA**	**77R37**	**EDRE**	**80M4**	67	617
	6.6	820	219	14800	1.50	-		**SAF**	**77R37**	**EDRE**	**80M4**	74	617
	5.0	1010	288.00*	29700	2.2	-		**S**	**87**	**EDRE**	**80M4**	93	607
	5.6	910	258.18	29800	2.5	-		**SF**	**87**	**EDRE**	**80M4**	115	608
	6.4	800	222.40*	29800	2.8	-		**SA**	**87**	**EDRE**	**80M4**	91	609
	7.1	735	202.96	29900	3.0	-		**SAF**	**87**	**EDRE**	**80M4**	105	608
	5.6	850	256.47	14600	1.50	-	X						
	6.4	760	225.26	15100	1.65	-							
	6.7	730	214.00*	15200	1.75	-							
	7.6	650	189.09	15500	1.95	-		**S**	**77**	**EDRE**	**80M4**	58	602
	8.9	565	161.60*	15800	2.2	-		**SF**	**77**	**EDRE**	**80M4**	67	603
	9.7	520	148.15	16000	2.4	-		**SA**	**77**	**EDRE**	**80M4**	57	604
	11	460	130.00*	16000	2.6	-		**SAF**	**77**	**EDRE**	**80M4**	64	603
	12	440	123.20*	16000	2.7	-							
	13	390	107.83	16000	3.0	-							
	9.1	510	158.45	8740	1.00	-							
	11	440	134.40*	9300	1.15	-							
	12	400	121.33	9560	1.30	-							
	13	360	106.75*	9820	1.45	-							
	14	340	100.80*	9920	1.50	-		**S**	**67**	**EDRE**	**80M4**	38	597
	17	295	85.83	10100	1.75	-		**SF**	**67**	**EDRE**	**80M4**	44	598
	19	300	75.06	10100	1.60	-		**SA**	**67**	**EDRE**	**80M4**	39	599
	22	260	65.63	10300	1.80	-		**SAF**	**67**	**EDRE**	**80M4**	43	598
	23	250	62.35*	10300	1.90	-							
	26	220	54.70	10200	2.2	-							
	31	191	46.40*	9740	2.5	-							

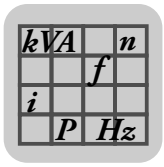


P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.75	**17**	275	84.00*	7290	1.05	-							
	20	235	71.75*	7560	1.20	-							
	21	225	67.20*	7640	1.25	-							
	25	193	56.61	7830	1.35	-							
	26	215	54.59	7700	1.15	-							
	30	190	47.32	7850	1.30	-							
	32	178	44.22*	7910	1.40	-		**S**	**57**	**EDRE**	**80M4**	27	592
	38	155	38.23	7910	1.60	-		**SF**	**57**	**EDRE**	**80M4**	31	593
	44	133	32.48*	7590	1.85	-		**SA**	**57**	**EDRE**	**80M4**	26	594
	49	119	29.00*	7380	2.0	-		**SAF**	**57**	**EDRE**	**80M4**	29	593
	58	103	24.77	7080	2.4	-							
	62	96	23.20*	6950	2.5	-							
	71	90	20.33	6420	1.90	-							
	81	78	17.62	6200	2.2	-							
	87	73	16.47*	6100	2.3	-							
	101	64	14.24	5870	2.7	-							
	38	153	38.23	4400	1.00	-							
	44	131	32.48*	4290	1.20	-							
	49	118	29.00*	4200	1.30	-							
	58	102	24.77	4080	1.50	-							
	62	96	23.20*	4030	1.60	-							
	71	89	20.33	3590	1.25	-							
	81	78	17.62	3510	1.40	-							
	87	73	16.47*	3470	1.50	-		**S**	**47**	**EDRE**	**80M4**	23	587
	101	63	14.24	3380	1.75	-		**SF**	**47**	**EDRE**	**80M4**	27	588
	119	54	12.10*	3280	2.0	-		**SA**	**47**	**EDRE**	**80M4**	24	589
	133	48	10.80*	3200	2.2	-		**SAF**	**47**	**EDRE**	**80M4**	26	588
	156	42	9.23*	3090	2.6	-							
	166	39	8.64*	3040	2.8	-							
	197	33	7.28	2920	3.1	-							
	224	29	6.40*	2810	2.6	-							
	266	25	5.39	2690	3.0	-							
	301	22	4.76	2610	3.3	-							
	359	18	4.00*	2490	3.3	-							
	140	46	10.23	1900	1.05	-							
	159	40	9.02*	1880	1.15	-							
	179	36	8.00*	1850	1.25	-		**S**	**37**	**EDRE**	**80M4**	20	583
	211	31	6.80*	1800	1.40	-		**SF**	**37**	**EDRE**	**80M4**	21	584
	227	29	6.33	1760	1.20	-		**SA**	**37**	**EDRE**	**80M4**	20	585
	267	24	5.38	1710	1.40	-		**SAF**	**37**	**EDRE**	**80M4**	21	584
	295	22	4.86*	1680	1.50	-							
	362	18	3.97	1610	1.75	-							
1.1	**2.0**	3360	714	34400	1.25	-	X						
	2.3	3570	626	34000	1.15	-	X	**S**	**97R57**	**EDRE**	**90M4**	180	617
	2.6	3070	538	34800	1.35	-		**SF**	**97R57**	**EDRE**	**90M4**	215	617
	2.9	2780	484	35300	1.50	-		**SA**	**97R57**	**EDRE**	**90M4**	175	617
	3.4	2410	420	35700	1.75	-		**SAF**	**97R57**	**EDRE**	**90M4**	200	617
	2.9	2230	485	28000	1.10	-							
	3.3	2030	435	28400	1.20	-	X						
	3.8	1780	378	28800	1.35	-	X	**S**	**87R57**	**EDRE**	**90M4**	120	617
	4.4	1550	323	29100	1.55	-	X	**SF**	**87R57**	**EDRE**	**90M4**	140	617
	5.0	1360	281	29300	1.75	-		**SA**	**87R57**	**EDRE**	**90M4**	120	617
	5.6	1450	255	29200	1.35	-		**SAF**	**87R57**	**EDRE**	**90M4**	135	617
	6.4	1270	222	29400	1.55	-							
	6.9	1190	205	29500	1.65	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
1.1	**6.5**	1230	219	12000	1.00	-		**S**	**77R37**	**EDRE**	**90M4**	71	617
								SF	**77R37**	**EDRE**	**90M4**	81	617
								SA	**77R37**	**EDRE**	**90M4**	71	617
								SAF	**77R37**	**EDRE**	**90M4**	78	617
	5.0	1550	286.40*	36500	2.6	-		**S**	**97**	**EDRE**	**90M4**	155	612
	5.4	1430	262.22	36600	2.8	-		**SF**	**97**	**EDRE**	**90M4**	190	613
	6.1	1270	231.67	36700	3.1	-		**SA**	**97**	**EDRE**	**90M4**	150	614
								SAF	**97**	**EDRE**	**90M4**	175	613
	4.9	1490	288.00*	29200	1.50	-							
	5.5	1350	258.18	29300	1.70	-		**S**	**87**	**EDRE**	**90M4**	98	607
	6.4	1180	222.40*	29500	1.90	-		**SF**	**87**	**EDRE**	**90M4**	120	608
	7.0	1080	202.96	29600	2.00	-		**SA**	**87**	**EDRE**	**90M4**	95	609
	7.9	970	180.00*	29700	2.1	-		**SAF**	**87**	**EDRE**	**90M4**	110	608
	9.4	830	151.30	29800	2.4	-							
	6.3	1130	225.26	12900	1.10	-							
	6.6	1080	214.00*	13300	1.15	-	X						
	7.5	960	189.09	14000	1.30	-							
	8.8	830	161.60*	14700	1.50	-		**S**	**77**	**EDRE**	**90M4**	62	602
	9.6	775	148.15	15000	1.60	-		**SF**	**77**	**EDRE**	**90M4**	71	603
	11	685	130.00*	15400	1.75	-		**SA**	**77**	**EDRE**	**90M4**	61	604
	12	655	123.20*	15500	1.85	-		**SAF**	**77**	**EDRE**	**90M4**	68	603
	13	575	107.83	15800	2.0	-							
	15	525	97.14	15900	2.2	-							
	17	465	85.22	16000	2.4	-							
	14	505	100.80*	8800	1.05	-							
	17	435	85.83	9340	1.20	-							
	18	400	78.00*	9580	1.30	-							
	22	390	65.63	9640	1.20	-							
	23	370	62.35*	9750	1.30	-		**S**	**67**	**EDRE**	**90M4**	42	597
	26	330	54.70	9540	1.45	-		**SF**	**67**	**EDRE**	**90M4**	48	598
	31	280	46.40*	9210	1.70	-		**SA**	**67**	**EDRE**	**90M4**	43	599
	34	255	41.89	9010	1.85	-		**SAF**	**67**	**EDRE**	**90M4**	47	598
	39	225	36.85	8750	2.1	-							
	41	215	34.80*	8630	2.2	-							
	48	185	29.63	8300	2.6	-							
	37	225	38.23	7390	1.05	-							
	44	197	32.48*	7150	1.25	-							
	49	177	29.00*	6980	1.40	-							
	57	152	24.77	6740	1.60	-							
	61	143	23.20*	6640	1.70	-		**S**	**57**	**EDRE**	**90M4**	30	592
	73	121	19.54	6370	1.75	-		**SF**	**57**	**EDRE**	**90M4**	34	593
	81	116	17.62	5850	1.45	-		**SA**	**57**	**EDRE**	**90M4**	30	594
	86	108	16.47*	5770	1.55	-		**SAF**	**57**	**EDRE**	**90M4**	33	593
	100	94	14.24	5590	1.80	-							
	117	80	12.10*	5380	2.1	-							
	131	72	10.80*	5240	2.4	-							
	154	62	9.23*	5040	2.7	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
1.1	**57**	151	24.77	3660	1.00	-							
	61	142	23.20*	3640	1.05	-							
	73	120	19.54	3560	1.20	-							
	86	108	16.47*	3060	1.00	-							
	100	94	14.24	3030	1.15	-							
	117	80	12.10*	2980	1.35	-		**S**	**47**	**EDRE**	**90M4**	27	587
	131	72	10.80*	2930	1.50	-		**SF**	**47**	**EDRE**	**90M4**	30	588
	154	62	9.23*	2860	1.75	-		**SA**	**47**	**EDRE**	**90M4**	28	589
	164	58	8.64*	2830	1.90	-		**SAF**	**47**	**EDRE**	**90M4**	29	588
	195	49	7.28	2740	2.1	-							
	222	44	6.40*	2650	1.75	-							
	263	37	5.39	2560	2.0	-							
	298	32	4.76	2490	2.2	-							
	355	27	4.00*	2390	2.2	-							
	292	33	4.86*	1510	1.00	-		**S**	**37**	**EDRE**	**90M4**	24	583
	358	27	3.97	1470	1.20	-		**SF**	**37**	**EDRE**	**90M4**	25	584
								SA	**37**	**EDRE**	**90M4**	23	585
								SAF	**37**	**EDRE**	**90M4**	25	584
1.5	**2.7**	4200	538	31300	1.00	-							
	3.0	3790	484	33600	1.10	-		**S**	**97R57**	**EDRE**	**90L4**	185	617
	3.4	3300	420	34500	1.25	-	X	**SF**	**97R57**	**EDRE**	**90L4**	215	617
	3.8	2980	376	35000	1.40	-	X	**SA**	**97R57**	**EDRE**	**90L4**	180	617
	4.4	2610	327	35500	1.60	-		**SAF**	**97R57**	**EDRE**	**90L4**	205	617
	3.8	2440	378	27600	1.00	-							
	4.4	2120	323	28200	1.15	-		**S**	**87R57**	**EDRE**	**90L4**	125	617
	5.1	1860	281	28700	1.30	-	X	**SF**	**87R57**	**EDRE**	**90L4**	145	617
	6.4	1740	222	28800	1.15	-		**SA**	**87R57**	**EDRE**	**90L4**	120	617
	7.0	1620	205	29000	1.20	-		**SAF**	**87R57**	**EDRE**	**90L4**	135	617
	5.0	2100	286.40*	36100	1.90	-		**S**	**97**	**EDRE**	**90L4**	160	612
	5.4	1940	262.22	36200	2.1	-		**SF**	**97**	**EDRE**	**90L4**	190	613
	6.2	1730	231.67	36400	2.3	-		**SA**	**97**	**EDRE**	**90L4**	155	614
	7.3	1480	196.52	36600	2.7	-		**SAF**	**97**	**EDRE**	**90L4**	180	613
	5.0	2030	288.00*	28400	1.10	-							
	5.5	1830	258.18	28700	1.25	-							
	6.4	1600	222.40*	29000	1.40	-							
	7.0	1470	202.96	29200	1.45	-		**S**	**87**	**EDRE**	**90L4**	100	607
	7.9	1320	180.00*	29400	1.60	-		**SF**	**87**	**EDRE**	**90L4**	120	608
	9.4	1120	151.30	29600	1.75	-		**SA**	**87**	**EDRE**	**90L4**	98	609
	10	1040	139.05	29700	1.90	-		**SAF**	**87**	**EDRE**	**90L4**	115	608
	12	930	123.48	29700	2.1	-							
	13	840	110.40*	29800	2.3	-							
	14	760	99.26	29900	2.5	-							
	8.8	1130	161.60*	12800	1.10	-							
	9.6	1050	148.15	13500	1.20	-	X						
	11	930	130.00*	14200	1.30	-							
	12	880	123.20*	14500	1.35	-							
	13	785	107.83	15000	1.50	-							
	15	710	97.14	15300	1.60	-							
	17	630	85.22	15400	1.75	-		**S**	**77**	**EDRE**	**90L4**	64	602
	19	635	75.09	14100	1.70	-		**SF**	**77**	**EDRE**	**90L4**	74	603
	20	605	71.33	14000	1.80	-		**SA**	**77**	**EDRE**	**90L4**	64	604
	21	500	66.67	14500	2.0	-		**SAF**	**77**	**EDRE**	**90L4**	71	603
	23	540	63.03	13600	2.0	-							
	25	430	56.92	14000	2.2	-							
	27	465	53.87	13200	2.4	-							
	29	425	49.38	12900	2.6	-							
	33	375	43.33	12500	2.9	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
1.5	**26**	445	54.70	8790	1.05	-							
	31	380	46.40*	8570	1.25	-							
	34	345	41.89	8420	1.40	-							
	39	305	36.85	8230	1.55	-							
	41	290	34.80*	8140	1.65	-							
	48	250	29.63	7880	1.90	-		**S**	**67**	**EDRE**	**90L4**	44	597
	53	225	26.93	7720	2.1	-		**SF**	**67**	**EDRE**	**90L4**	51	598
	59	215	24.44	6990	1.55	-		**SA**	**67**	**EDRE**	**90L4**	46	599
	62	205	23.22*	6930	1.65	-		**SAF**	**67**	**EDRE**	**90L4**	50	598
	70	184	20.37	6770	1.85	-							
	83	157	17.28*	6560	2.2	-							
	92	142	15.60*	6420	2.4	-							
	104	125	13.73*	6240	2.7	-							
	49	235	29.00*	6500	1.00	-							
	58	205	24.77	6330	1.20	-							
	62	194	23.20*	6250	1.25	-							
	73	164	19.54	6040	1.30	-		**S**	**57**	**EDRE**	**90L4**	33	592
	81	157	17.62	5420	1.05	-		**SF**	**57**	**EDRE**	**90L4**	37	593
	87	147	16.47*	5360	1.15	-		**SA**	**57**	**EDRE**	**90L4**	33	594
	100	128	14.24	5240	1.35	-		**SAF**	**57**	**EDRE**	**90L4**	36	593
	118	109	12.10*	5080	1.55	-							
	132	98	10.80*	4970	1.75	-							
	155	84	9.23*	4800	2.0	-							
	118	108	12.10*	2620	1.00	-							
	132	97	10.80*	2620	1.10	-							
	155	83	9.23*	2590	1.30	-							
	166	78	8.64*	2580	1.40	-		**S**	**47**	**EDRE**	**90L4**	29	587
	196	66	7.28	2530	1.55	-		**SF**	**47**	**EDRE**	**90L4**	33	588
	223	59	6.40*	2450	1.30	-		**SA**	**47**	**EDRE**	**90L4**	30	589
	265	50	5.39	2390	1.50	-		**SAF**	**47**	**EDRE**	**90L4**	32	588
	300	44	4.76	2340	1.65	-							
	358	37	4.00*	2260	1.65	-							
2.2	**4.4**	3870	327	33400	1.10	-		**S**	**97R57**	**EDRE**	**100M4**	190	617
	5.0	3420	287	34300	1.25	-	X	**SF**	**97R57**	**EDRE**	**100M4**	220	617
	5.7	2990	252	35000	1.40	-	X	**SA**	**97R57**	**EDRE**	**100M4**	180	617
								SAF	**97R57**	**EDRE**	**100M4**	210	617
	5.0	3090	286.40*	34800	1.30	-							
	5.4	2850	262.22	35200	1.40	-	X						
	6.2	2540	231.67	35600	1.55	-							
	7.2	2180	196.52	36000	1.80	-							
	7.9	2020	180.95	36100	1.90	-		**S**	**97**	**EDRE**	**100M4**	165	612
	8.8	1820	161.74	36300	2.1	-		**SF**	**97**	**EDRE**	**100M4**	195	613
	9.8	1650	145.60*	36500	2.2	-		**SA**	**97**	**EDRE**	**100M4**	160	614
	11	1500	131.85	36600	2.4	-		**SAF**	**97**	**EDRE**	**100M4**	185	613
	12	1340	116.92	36700	2.6	-							
	13	1220	105.71	36800	2.8	-							
	16	1040	89.60*	36900	3.1	-							



P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
2.2	**7.0**	2170	202.96	28100	1.00	-							
	7.9	1940	180.00*	28500	1.05	-							
	9.4	1650	151.30	29000	1.20	-							
	10	1530	139.05	29100	1.30	-							
	12	1370	123.48	29300	1.40	-							
	13	1230	110.40*	29500	1.55	-		**S**	**87**	**EDRE**	**100M4**	105	607
	14	1120	99.26	29600	1.70	-		**SF**	**87**	**EDRE**	**100M4**	125	608
	17	980	86.15	29700	1.90	-		**SA**	**87**	**EDRE**	**100M4**	105	609
	17	1050	81.76	29600	1.50	-		**SAF**	**87**	**EDRE**	**100M4**	120	608
	18	880	77.14	29800	2.1	-							
	20	910	70.43	29800	1.75	-							
	22	830	64.27	29800	1.90	-							
	25	740	57.00*	29900	2.2	-							
	13	1150	107.83	12700	1.00	-							
	15	1040	97.14	13500	1.10	-							
	17	920	85.22	14100	1.20	-							
	19	820	75.20*	13800	1.30	-							
	21	735	66.67	13500	1.40	-							
	23	795	63.03	12400	1.40	-							
	25	635	56.92	13100	1.50	-							
	26	685	53.87	12100	1.60	-		**S**	**77**	**EDRE**	**100M4**	69	602
	29	630	49.38	11900	1.75	-		**SF**	**77**	**EDRE**	**100M4**	79	603
	33	555	43.33	11700	2.00	-		**SA**	**77**	**EDRE**	**100M4**	69	604
	35	525	41.07	11500	2.1	-		**SAF**	**77**	**EDRE**	**100M4**	75	603
	40	460	35.94	11300	2.4	-							
	44	420	32.38	11000	2.6	-							
	50	370	28.41	10700	2.8	-							
	57	325	25.07	10400	3.0	-							
	62	305	22.89	9470	2.3	-							
	68	280	20.99	9320	2.5	-							
	39	450	36.85	7350	1.05	-							
	41	425	34.80*	7310	1.10	-							
	48	365	29.63	7170	1.30	-							
	53	335	26.93	7070	1.45	-							
	61	290	23.33	6910	1.65	-							
	70	270	20.37	6060	1.25	-		**S**	**67**	**EDRE**	**100M4**	49	597
	82	230	17.28*	5950	1.50	-		**SF**	**67**	**EDRE**	**100M4**	56	598
	91	205	15.60*	5870	1.65	-		**SA**	**67**	**EDRE**	**100M4**	50	599
	104	184	13.73*	5760	1.85	-		**SAF**	**67**	**EDRE**	**100M4**	55	598
	110	174	12.96*	5700	1.95	-							
	129	149	11.03	5540	2.3	-							
	142	136	10.03	5440	2.5	-							
	164	118	8.69	5280	2.8	-							
	118	160	12.10*	4570	1.05	-							
	132	144	10.80*	4520	1.20	-							
	154	123	9.23*	4420	1.35	-							
	165	116	8.64*	4370	1.45	-		**S**	**57**	**EDRE**	**100M4**	38	592
	196	98	7.28	4240	1.50	-		**SF**	**57**	**EDRE**	**100M4**	42	593
	223	87	6.40*	4090	1.15	-		**SA**	**57**	**EDRE**	**100M4**	38	594
	264	73	5.39	3960	1.30	-		**SAF**	**57**	**EDRE**	**100M4**	41	593
	299	65	4.76	3850	1.45	-							
	356	55	4.00*	3710	1.60	-							
3.0	**5.8**	4020	252	33100	1.05	-		**S**	**97R57**	**EDRE**	**100LC4**	195	617
	6.6	3510	219	34100	1.20	-	X	**SF**	**97R57**	**EDRE**	**100LC4**	225	617
	7.1	3300	205	34500	1.25	-		**SA**	**97R57**	**EDRE**	**100LC4**	190	617
								SAF	**97R57**	**EDRE**	**100LC4**	215	617

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
3.0	**5.6**	3820	262.22	33600	1.05	-							
	6.3	3410	231.67	34300	1.15	-	X						
	7.4	2920	196.52	35100	1.35	-							
	8.0	2710	180.95	35400	1.45	-	X						
	9.0	2440	161.74	35700	1.55	-		**S**	**97**	**EDRE**	**100LC4**	170	612
	10.0	2210	145.60*	36000	1.70	-		**SF**	**97**	**EDRE**	**100LC4**	200	613
	11	2010	131.85	36200	1.80	-		**SA**	**97**	**EDRE**	**100LC4**	165	614
	12	1800	116.92	36300	1.95	-		**SAF**	**97**	**EDRE**	**100LC4**	190	613
	14	1630	105.71	36500	2.1	-							
	16	1390	89.60*	36700	2.3	-							
	18	1410	80.85	36600	2.3	-							
	12	1830	123.48	28700	1.05	-							
	13	1650	110.40*	29000	1.15	-							
	15	1490	99.26	29200	1.25	-							
	17	1310	86.15	29400	1.45	-							
	18	1400	81.76	29300	1.15	-							
	19	1180	77.14	29500	1.55	-		**S**	**87**	**EDRE**	**100LC4**	110	607
	21	1210	70.43	29500	1.30	-		**SF**	**87**	**EDRE**	**100LC4**	130	608
	23	1110	64.27	29600	1.45	-		**SA**	**87**	**EDRE**	**100LC4**	110	609
	26	990	57.00*	29700	1.60	-		**SAF**	**87**	**EDRE**	**100LC4**	125	608
	30	830	47.91	29800	1.90	-							
	33	770	44.03	29900	2.1	-							
	37	685	39.10	29900	2.3	-							
	42	615	34.96*	29900	2.6	-							
	22	980	66.67	12300	1.05	M1-6							
	23	1060	63.03	10900	1.05	-							
	26	850	56.92	12000	1.15	M1-6							
	27	910	53.87	10800	1.20	-							
	29	840	49.38	10800	1.30	-							
	34	740	43.33	10600	1.50	-							
	35	705	41.07	10600	1.55	-							
	40	620	35.94	10400	1.75	-							
	45	560	32.38	10200	1.90	-		**S**	**77**	**EDRE**	**100LC4**	74	602
	51	490	28.41	10000	2.1	-		**SF**	**77**	**EDRE**	**100LC4**	84	603
	58	435	25.07	9770	2.3	-		**SA**	**77**	**EDRE**	**100LC4**	74	604
	64	410	22.89	8640	1.70	-		**SAF**	**77**	**EDRE**	**100LC4**	80	603
	69	375	20.99	8550	1.85	-							
	79	330	18.42	8400	2.1	-							
	83	315	17.45	8340	2.2	-							
	95	275	15.28	8160	2.6	-							
	106	250	13.76	8010	2.8	-							
	121	220	12.07	7810	3.3	-							
	137	195	10.65	7610	3.7	-							
	54	445	26.93	6320	1.05	-							
	62	390	23.33	6250	1.25	-							
	84	305	17.28*	5250	1.10	-							
	93	275	15.60*	5230	1.20	-		**S**	**67**	**EDRE**	**100LC4**	54	597
	106	245	13.73*	5190	1.40	-		**SF**	**67**	**EDRE**	**100LC4**	61	598
	112	230	12.96*	5170	1.45	-		**SA**	**67**	**EDRE**	**100LC4**	55	599
	132	199	11.03	5080	1.70	-		**SAF**	**67**	**EDRE**	**100LC4**	60	598
	145	181	10.03	5020	1.90	-							
	167	157	8.69	4910	2.1	-							
	192	137	7.56*	4800	2.2	-							
	158	164	9.23*	3960	1.05	-							
	168	154	8.64*	3950	1.10	-		**S**	**57**	**EDRE**	**100LC4**	43	592
	200	130	7.28	3880	1.10	-		**SF**	**57**	**EDRE**	**100LC4**	47	593
	306	87	4.76	3600	1.05	-		**SA**	**57**	**EDRE**	**100LC4**	43	594
	364	73	4.00*	3480	1.20	-		**SAF**	**57**	**EDRE**	**100LC4**	46	593

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
4.0	**7.4**	3890	196.52	33400	1.00	-							
	8.1	3600	180.95	34000	1.10	-							
	9.0	3240	161.74	34600	1.15	-							
	10	2940	145.60*	35000	1.25	-							
	11	2680	131.85	35400	1.35	-	**S**	**97**	**EDRE**	**132S4**	180	612
	12	2390	116.92	35800	1.45	-	**SF**	**97**	**EDRE**	**132S4**	215	613
	14	2170	105.71	36000	1.55	-	**SA**	**97**	**EDRE**	**132S4**	175	614
	16	1850	89.60*	36300	1.75	-	**SAF**	**97**	**EDRE**	**132S4**	205	613
	18	1880	80.85	36300	1.70	-						
	20	1670	71.43	36400	1.95	-						
	24	1420	60.59	36600	2.3	-						
	26	1310	55.79	36700	2.5	-						
	17	1740	86.15	28800	1.10	-						
	19	1570	77.14	29100	1.15	-						
	23	1480	64.27	29200	1.10	-						
	26	1310	57.00*	29400	1.20	-						
	30	1110	47.91	29600	1.45	-	**S**	**87**	**EDRE**	**132S4**	125	607
	33	1020	44.03	29700	1.55	-	**SF**	**87**	**EDRE**	**132S4**	145	608
	37	910	39.10	29700	1.75	-	**SA**	**87**	**EDRE**	**132S4**	120	609
	42	820	34.96*	29700	1.95	-	**SAF**	**87**	**EDRE**	**132S4**	140	608
	46	740	31.43	28900	2.2	-						
	54	645	27.28	28000	2.5	-						
	57	615	25.50*	26400	2.0	-						
	34	980	43.33	9370	1.10	-						
	36	930	41.07	9370	1.15	-						
	41	820	35.94	9330	1.35	-						
	45	745	32.38	9270	1.45	-						
	51	655	28.41	9160	1.60	-						
	58	580	25.07	9040	1.70	-						
	64	545	22.89	7650	1.30	-	**S**	**77**	**EDRE**	**132S4**	88	602
	70	500	20.99	7640	1.40	-	**SF**	**77**	**EDRE**	**132S4**	97	603
	79	440	18.42	7600	1.60	-	**SA**	**77**	**EDRE**	**132S4**	87	604
	84	420	17.45	7580	1.70	-	**SAF**	**77**	**EDRE**	**132S4**	94	603
	96	365	15.28	7490	1.90	-						
	106	330	13.76	7400	2.1	-						
	121	290	12.07	7280	2.4	-						
	137	255	10.65	7140	2.8	-						
	155	230	9.44	6990	3.2	-						
	181	197	8.06	6790	3.4	-						
	106	325	13.73*	4510	1.05	-						
	113	305	12.96*	4520	1.10	-	**S**	**67**	**EDRE**	**132S4**	110	597
	132	260	11.03	4530	1.30	-	**SF**	**67**	**EDRE**	**132S4**	115	598
	146	240	10.03	4520	1.40	-	**SA**	**67**	**EDRE**	**132S4**	110	599
	168	205	8.69	4480	1.60	-	**SAF**	**67**	**EDRE**	**132S4**	115	598
	193	182	7.56*	4420	1.60	-						
5.5	**12**	3300	116.92	34500	1.05	-						
	14	3000	105.71	35000	1.15	-						
	16	2560	89.60*	35500	1.25	-						
	19	2250	78.26	35900	1.35	-						
	20	2300	71.43	35800	1.45	-	**S**	**97**	**EDRE**	**132M4**	195	612
	22	1900	65.45	36300	1.50	-	**SF**	**97**	**EDRE**	**132M4**	225	613
	24	1960	60.59	36200	1.70	-	**SA**	**97**	**EDRE**	**132M4**	190	614
	26	1810	55.79	36300	1.80	-	**SAF**	**97**	**EDRE**	**132M4**	215	613
	29	1620	49.87	36500	2.0	-						
	32	1470	44.89	36600	2.2	-						
	36	1330	40.65	36700	2.5	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
5.5	**30**	1530	47.91	29100	1.05	-							
	33	1410	44.03	29200	1.15	-							
	37	1260	39.10	29100	1.25	-							
	42	1130	34.96*	28500	1.40	-							
	46	1020	31.43	27900	1.55	-							
	53	890	27.28	27100	1.80	-	**S**	**87**	**EDRE**	**132M4**	135	607
	57	850	25.50*	25200	1.45	-	**SF**	**87**	**EDRE**	**132M4**	160	608
	68	715	21.43	24400	1.70	-	**SA**	**87**	**EDRE**	**132M4**	135	609
	74	660	19.70	24000	1.85	-	**SAF**	**87**	**EDRE**	**132M4**	150	608
	83	585	17.49	23400	2.1	-						
	93	525	15.64*	22900	2.4	-						
	103	475	14.06	22400	2.6	-						
	119	410	12.21	21700	3.0	-						
	133	370	10.93	21100	3.3	-						
	45	1020	32.38	7860	1.05	-						
	51	900	28.41	7920	1.15	-						
	58	800	25.07	7940	1.25	-						
	65	710	22.22	7920	1.35	-						
	79	610	18.42	6000	1.15	-	**S**	**77**	**EDRE**	**132M4**	100	602
	83	580	17.45	6240	1.20	-	**SF**	**77**	**EDRE**	**132M4**	110	603
	95	505	15.28	6500	1.40	-	**SA**	**77**	**EDRE**	**132M4**	99	604
	106	460	13.76	6510	1.55	-	**SAF**	**77**	**EDRE**	**132M4**	105	603
	121	400	12.07	6490	1.80	-						
	137	355	10.65	6440	2.0	-						
	154	315	9.44	6380	2.3	-						
	180	270	8.06	6260	2.5	-						
	145	330	10.03	3310	1.00	-	**S**	**67**	**EDRE**	**132M4**	120	597
	167	285	8.69	3720	1.15	-	**SF**	**67**	**EDRE**	**132M4**	125	598
	192	250	7.56*	3850	1.15	-	**SA**	**67**	**EDRE**	**132M4**	120	599
							SAF	**67**	**EDRE**	**132M4**	125	598
7.5	**19**	3050	78.26	34900	1.00	M1-6							
	21	3120	71.43	34800	1.05	-							
	22	2570	65.45	35500	1.10	M1-6							
	24	2660	60.59	35400	1.25	-							
	26	2460	55.79	35700	1.35	-							
	29	2200	49.87	36000	1.50	-	**S**	**97**	**EDRE**	**160S4**	210	612
	33	1990	44.89	36200	1.65	-	**SF**	**97**	**EDRE**	**160S4**	245	613
	36	1800	40.65	36300	1.85	-	**SA**	**97**	**EDRE**	**160S4**	205	614
	41	1600	36.05	36000	2.0	-	**SAF**	**97**	**EDRE**	**160S4**	230	613
	45	1450	32.60	35300	2.2	-						
	56	1210	26.39	31900	2.1	-						
	62	1080	23.59	31200	2.4	-						
	69	970	21.23	30600	2.7	-						
	76	880	19.23	30000	2.9	-						
	42	1530	34.96*	26900	1.05	-						
	47	1380	31.43	26400	1.15	-						
	54	1200	27.28	25800	1.35	-						
	57	1150	25.50*	23400	1.05	-						
	68	970	21.43	22900	1.25	-						
	74	890	19.70	22700	1.40	-	**S**	**87**	**EDRE**	**160S4**	150	607
	84	795	17.49	22200	1.55	-	**SF**	**87**	**EDRE**	**160S4**	175	608
	94	715	15.64*	21800	1.75	-	**SA**	**87**	**EDRE**	**160S4**	150	609
	104	640	14.06	21400	1.95	-	**SAF**	**87**	**EDRE**	**160S4**	165	608
	120	560	12.21	20800	2.2	-						
	134	500	10.93	20400	2.5	-						
	162	415	9.07	19600	2.7	-						
	186	360	7.88	19000	2.8	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
7.5	**66**	960	22.22	6620	1.00	M2							
	96	690	15.28	3400	1.05	-							
	106	620	13.76	4020	1.15	-	**S**	**77**	**EDRE**	**160S4**	115	602
	121	545	12.07	4680	1.30	-	**SF**	**77**	**EDRE**	**160S4**	125	603
	138	480	10.65	5200	1.50	-	**SA**	**77**	**EDRE**	**160S4**	115	604
	155	430	9.44	5560	1.70	-	**SAF**	**77**	**EDRE**	**160S4**	120	603
	182	365	8.06	5560	1.85	-						
9.2	**26**	3000	55.79	34900	1.10	-						
	29	2690	49.87	35400	1.20	-						
	33	2430	44.89	35700	1.35	-						
	36	2210	40.65	35600	1.50	-						
	41	1960	36.05	34900	1.65	-						
	45	1780	32.60	34200	1.75	-	**S**	**97**	**EDRE**	**160M4**	220	612
	56	1480	26.39	30600	1.75	-	**SF**	**97**	**EDRE**	**160M4**	250	613
	62	1320	23.59	30100	1.95	-	**SA**	**97**	**EDRE**	**160M4**	215	614
	69	1190	21.23	29600	2.2	-	**SAF**	**97**	**EDRE**	**160M4**	240	613
	76	1080	19.23	29000	2.4	-						
	86	960	17.05	28400	2.6	-						
	95	870	15.42	27800	2.8	-						
	112	740	13.07	26900	3.1	-						
	129	645	11.41	26100	3.4	-						
	54	1470	27.28	24700	1.10	-						
	60	1320	24.43	24300	1.20	-						
	73	1100	20.27	23600	1.45	-						
	75	1090	19.70	21500	1.15	-						
	84	970	17.49	21200	1.25	-	**S**	**87**	**EDRE**	**160M4**	160	607
	94	870	15.64*	20900	1.40	-	**SF**	**87**	**EDRE**	**160M4**	180	608
	105	785	14.06	20600	1.60	-	**SA**	**87**	**EDRE**	**160M4**	160	609
	120	680	12.21	20100	1.80	-	**SAF**	**87**	**EDRE**	**160M4**	175	608
	135	610	10.93	19700	2.0	-						
	162	510	9.07	19000	2.2	-						
	186	440	7.88	18500	2.3	-						
	122	670	12.07	2430	1.05	-	**S**	**77**	**EDRE**	**160M4**	125	602
	138	590	10.65	3170	1.20	-	**SF**	**77**	**EDRE**	**160M4**	135	603
	156	525	9.44	3780	1.40	-	**SA**	**77**	**EDRE**	**160M4**	125	604
	182	450	8.06	4440	1.50	-	**SAF**	**77**	**EDRE**	**160M4**	130	603
11.0	**29**	3220	49.87	34600	1.00	-						
	33	2910	44.89	34700	1.15	-						
	36	2640	40.65	34300	1.25	-						
	41	2350	36.05	33700	1.40	-						
	45	2120	32.60	33100	1.50	-						
	56	1770	26.39	29300	1.45	-	**S**	**97**	**EDRE**	**180S4**	250	612
	62	1580	23.59	28900	1.65	-	**SF**	**97**	**EDRE**	**180S4**	285	613
	69	1430	21.23	28500	1.80	-	**SA**	**97**	**EDRE**	**180S4**	245	614
	76	1290	19.23	28100	2.0	-	**SAF**	**97**	**EDRE**	**180S4**	275	613
	86	1150	17.05	27500	2.2	-						
	95	1040	15.42	27100	2.4	-						
	112	880	13.07	26200	2.6	-						
	129	775	11.41	25500	2.8	-						
	60	1580	24.43	23300	1.00	-						
	73	1310	20.27	22800	1.20	-						
	84	1160	17.49	20200	1.05	-						
	94	1040	15.64*	20000	1.20	-	**S**	**87**	**EDRE**	**180S4**	195	607
	105	940	14.06	19700	1.30	-	**SF**	**87**	**EDRE**	**180S4**	215	608
	120	810	12.21	19400	1.50	-	**SA**	**87**	**EDRE**	**180S4**	190	609
	135	730	10.93	19100	1.70	-	**SAF**	**87**	**EDRE**	**180S4**	205	608
	162	610	9.07	18500	1.85	-						
	186	530	7.88	18000	1.90	-						

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
15.0	**41**	3200	36.05	31000	1.00	-							
	45	2900	32.60	30700	1.10	-							
	56	2410	26.39	26400	1.10	-							
	62	2160	23.59	26300	1.20	-							
	69	1950	21.23	26200	1.35	-	**S**	**97**	**EDRE**	**180M4**	270	612
	76	1770	19.23	26000	1.45	-	**SF**	**97**	**EDRE**	**180M4**	300	613
	86	1570	17.05	25700	1.60	-	**SA**	**97**	**EDRE**	**180M4**	265	614
	95	1420	15.42	25400	1.70	-	**SAF**	**97**	**EDRE**	**180M4**	290	613
	112	1200	13.07	24800	1.90	-						
	129	1050	11.41	24300	2.1	-						
	154	880	9.55	23500	2.3	-						
	178	765	8.26	22900	2.3	-						
	120	1110	12.21	17800	1.10	-	**S**	**87**	**EDRE**	**180M4**	210	607
	135	1000	10.93	17600	1.25	-	**SF**	**87**	**EDRE**	**180M4**	230	608
	162	830	9.07	17300	1.35	-	**SA**	**87**	**EDRE**	**180M4**	210	609
	186	725	7.88	17000	1.40	-	**SAF**	**87**	**EDRE**	**180M4**	225	608
18.5	**61**	2660	24.13	28100	1.05	-							
	69	2400	21.23	24100	1.10	-							
	76	2180	19.23	24100	1.20	-							
	86	1930	17.05	24000	1.30	-	**S**	**97**	**EDRE**	**180L4**	280	612
	95	1750	15.42	23900	1.40	-	**SF**	**97**	**EDRE**	**180L4**	315	613
	112	1490	13.07	23500	1.55	-	**SA**	**97**	**EDRE**	**180L4**	275	614
	129	1300	11.41	23200	1.65	-	**SAF**	**97**	**EDRE**	**180L4**	300	613
	154	1090	9.55	22600	1.85	-						
	178	940	8.26	22100	1.85	-						
22	**77**	2570	19.23	20600	1.00	-							
	87	2290	17.05	22400	1.10	-							
	96	2070	15.42	22400	1.20	-	**S**	**97**	**EDRE**	**200L4**	385	612
	113	1760	13.07	22200	1.30	-	**SF**	**97**	**EDRE**	**200L4**	415	613
	130	1540	11.41	22000	1.40	-	**SA**	**97**	**EDRE**	**200L4**	380	614
	155	1290	9.55	21700	1.55	-	**SAF**	**97**	**EDRE**	**200L4**	405	613
	179	1110	8.26	21300	1.60	-						

9.5 Selection tables for SPIROPLAN® gearmotors /3GD T3

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.12	**5.2**	107	267	3370	1.05	-							
	5.9	94	233	3560	1.15	-	X						
	6.7	81	207	3720	1.35	-	X						
	7.5	73	184	3800	1.50	-	X						
	8.6	68	160	3850	1.60	-	X						
	9.8	60	141	3910	1.80	-	X	**W**	**37R17**	**DR**	**63S4**	13	634
	11	54	125	3960	2.0	-	X	**WF**	**37R17**	**DR**	**63S4**	13	634
	13	48	109	4000	2.3	-	X	**WA**	**37R17**	**DR**	**63S4**	13	634
	14	43	96	4030	2.6	-	X	**WAF**	**37R17**	**DR**	**63S4**	13	634
	17	37	82	4060	3.0	-	X						
	19	38	73	4050	2.3	-	X						
	22	34	63	4070	2.6	-							
	26	29	53	4090	3.1	-							
	29	27	48	4100	3.3	-							
	20	39	69.05	4050	2.8	-							
	22	36	63.33	4060	3.1	-							
	26	31	53.92	4080	3.5	-		**W**	**37**	**DR**	**63S4**	10	625
	30	27	46.49	4100	4.0	-		**WF**	**37**	**DR**	**63S4**	10	626
	36	23	37.88	4110	4.8	-		**WA**	**37**	**DR**	**63S4**	10	628
	40	24	34.52	4110	3.8	-		**WAF**	**37**	**DR**	**63S4**	10	626
	44	22	31.67	4120	4.1	-							
	18	28	75.00*	3000	2.5	-							
	23	26	60.00*	3000	2.7	-		**W**	**30**	**DR**	**63S4**	9.0	621
	29	22	48.00*	3000	3.1	-		**WF**	**30**	**DR**	**63S4**	9.4	622
	35	20	39.00*	3000	3.4	-		**WA**	**30**	**DR**	**63S4**	8.8	624
	42	17	32.50*	3000	4.1	-		**WAF**	**30**	**DR**	**63S4**	9.1	623
	50	16	27.50*	3000	4.4	-							
	18	25	75.00*	2200	1.60	-							
	23	22	60.00*	2200	1.80	-							
	29	20	48.00*	2200	1.95	-							
	35	18	39.00*	2200	2.2	-							
	42	18	32.50*	2200	2.2	-							
	50	15	27.50*	2200	2.6	-		**W**	**20**	**DR**	**63S4**	6.6	618
	56	14	24.50*	2200	2.9	-		**WF**	**20**	**DR**	**63S4**	6.8	619
	71	12	19.50*	2200	2.9	-		**WA**	**20**	**DR**	**63S4**	6.3	620
	84	10	16.50*	2200	2.9	-		**WAF**	**20**	**DR**	**63S4**	6.3	619
	96	9.5	14.33	2200	3.2	-							
	135	7.2	10.25*	2190	3.5	-							
	168	5.9	8.20*	2020	3.4	-							
	210	4.9	6.57	1890	4.1	-							
0.18	**5.6**	178	237	6420	1.05	-							
	6.3	156	210	6560	1.10	-							
	7.2	135	183	6680	1.45	-	X						
	8.3	122	159	6760	1.55	-	X						
	9.3	108	141	6840	1.75	-	X	**W**	**47R17**	**DR**	**63M4**	18	634
	11	114	124	6900	1.65	-		**WF**	**47R17**	**DR**	**63M4**	19	634
	11	93	120	6930	2.0	-		**WA**	**47R17**	**DR**	**63M4**	17	634
	13	96	105	6990	1.95	-		**WAF**	**47R17**	**DR**	**63M4**	18	634
	14	90	95	7020	2.0	-							
	16	79	85	7070	2.2	-							
	17	74	77	7090	2.5	-							
	18	67	72	7120	2.6	-							

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.18	**8.2**	110	160	3320	1.00	-								
	9.3	99	141	3500	1.10	-								
	11	88	125	3630	1.25	-	X							
	12	79	109	3740	1.40	-	X	**W**	**37R17**	**DR**	**63M4**		13	634
	14	71	96	3820	1.55	-	X	**WF**	**37R17**	**DR**	**63M4**		13	634
	16	61	82	3910	1.80	-	X	**WA**	**37R17**	**DR**	**63M4**		13	634
	18	64	73	3890	1.40	-	X	**WAF**	**37R17**	**DR**	**63M4**		13	634
	21	56	63	3940	1.60	-	X							
	25	48	53	4000	1.85	-								
	27	44	48	4020	2.0	-								
	18	70	74.98	7060	2.6	-								
	19	65	68.93	7080	2.8	-								
	22	56	58.98	7130	3.2	-		**W**	**47**	**DR**	**63M4**		16	630
	26	50	51.12	7160	3.6	-		**WF**	**47**	**DR**	**63M4**		16	631
	28	47	47.78	7180	3.8	-		**WA**	**47**	**DR**	**63M4**		14	632
	32	41	41.30	7210	4.4	-		**WAF**	**47**	**DR**	**63M4**		15	631
	42	35	31.62	7020	4.6	-								
	19	60	69.05	3920	1.85	-	X							
	21	56	63.33	3950	1.95	-	X							
	24	48	53.92	4000	2.3	-								
	28	43	46.49	4030	2.6	-								
	35	36	37.88	4070	3.1	-		**W**	**37**	**DR**	**63M4**		10	625
	38	37	34.52	4060	2.4	-		**WF**	**37**	**DR**	**63M4**		10	626
	42	34	31.67	4070	2.6	-		**WA**	**37**	**DR**	**63M4**		10	628
	48	27	27.78	4100	4.1	-		**WAF**	**37**	**DR**	**63M4**		10	626
	49	29	26.96	4090	3.1	-								
	57	26	23.25	4100	3.5	-								
	62	21	21.33	4120	5.0	-								
	70	21	18.94	4120	4.3	-								
	18	44	75.00*	3000	1.60	-								
	22	40	60.00*	3000	1.75	-								
	28	35	48.00*	3000	2.00	-								
	34	32	39.00*	3000	2.2	-								
	41	27	32.50*	3000	2.6	-								
	48	25	27.50*	3000	2.8	-		**W**	**30**	**DR**	**63M4**		9.0	621
	54	23	24.50*	3000	3.0	-		**WF**	**30**	**DR**	**63M4**		9.4	622
	68	20	19.50*	3000	3.6	-		**WA**	**30**	**DR**	**63M4**		8.8	624
	81	17	16.33	3000	3.5	-		**WAF**	**30**	**DR**	**63M4**		9.1	623
	92	15	14.33	3000	3.9	-								
	129	12	10.25*	3000	4.3	-								
	161	9.5	8.20*	3000	4.2	-								
	201	8.0	6.57	2980	5.0	-								
	18	39	75.00*	2200	1.00	-								
	22	34	60.00*	2200	1.15	-								
	28	32	48.00*	2200	1.25	-								
	34	29	39.00*	2200	1.40	-								
	41	28	32.50*	2200	1.40	-								
	48	24	27.50*	2200	1.65	-		**W**	**20**	**DR**	**63M4**		6.6	618
	54	22	24.50*	2200	1.85	-		**WF**	**20**	**DR**	**63M4**		6.8	619
	68	19	19.50*	2200	1.90	-		**WA**	**20**	**DR**	**63M4**		6.3	620
	80	16	16.50*	2200	1.85	-		**WAF**	**20**	**DR**	**63M4**		6.3	619
	92	15	14.33	2200	2.0	-								
	129	11	10.25*	2200	2.2	-								
	161	9.2	8.20*	2010	2.2	-								
	201	7.7	6.57	1890	2.6	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.25	**7.7**	182	183	6390	1.10	-								
	8.8	163	159	6510	1.15	-	X							
	9.9	145	141	6620	1.30	-	X							
	11	152	124	6700	1.25	-		**W**	**47R17**	**EDRS**	**71S4**		21	634
	12	125	120	6750	1.50	-	X	**WF**	**47R17**	**EDRS**	**71S4**		21	634
	13	128	105	6820	1.45	-		**WA**	**47R17**	**EDRS**	**71S4**		19	634
	15	120	95	6870	1.55	-		**WAF**	**47R17**	**EDRS**	**71S4**		20	634
	17	106	85	6940	1.65	-								
	18	98	77	6980	1.90	-								
	19	90	72	7020	1.95	-								
	13	106	109	3390	1.05	-								
	15	95	96	3550	1.15	-								
	17	82	82	3710	1.35	-	X	**W**	**37R17**	**EDRS**	**71S4**		15	634
	19	86	73	3670	1.05	-		**WF**	**37R17**	**EDRS**	**71S4**		15	634
	22	76	63	3780	1.20	-	X	**WA**	**37R17**	**EDRS**	**71S4**		15	634
	26	64	53	3880	1.40	-	X	**WAF**	**37R17**	**EDRS**	**71S4**		15	634
	29	59	48	3920	1.50	-								
	19	92	74.98	6940	1.95	-								
	20	85	68.93	6970	2.1	-		**W**	**47**	**EDRS**	**71S4**		19	630
	24	74	58.98	7030	2.4	-		**WF**	**47**	**EDRS**	**71S4**		20	631
	27	65	51.12	7080	2.8	-		**WA**	**47**	**EDRS**	**71S4**		18	632
	29	61	47.78	7100	2.9	-		**WAF**	**47**	**EDRS**	**71S4**		19	631
	20	79	69.05	3740	1.40	-	X							
	22	73	63.33	3800	1.50	-	X							
	26	64	53.92	3890	1.70	-	X							
	30	56	46.49	3950	1.95	-								
	37	47	37.88	4010	2.4	-								
	41	48	34.52	4000	1.85	-								
	44	45	31.67	4020	2.0	-								
	51	35	27.78	4070	3.1	-		**W**	**37**	**EDRS**	**71S4**		13	625
	52	38	26.96	4050	2.3	-		**WF**	**37**	**EDRS**	**71S4**		13	626
	60	34	23.25	4080	2.7	-		**WA**	**37**	**EDRS**	**71S4**		13	628
	66	28	21.33	4100	3.8	-		**WAF**	**37**	**EDRS**	**71S4**		13	626
	74	28	18.94	4100	3.3	-								
	90	23	15.67	4110	3.9	-								
	101	21	13.89	4120	4.4	-								
	111	20	12.70	4120	3.5	-								
	121	18	11.65	4020	3.8	-								
	132	16	10.67	3820	5.6	-								
	142	16	9.92	3830	4.5	-								
	19	58	75.00*	3000	1.20	-								
	23	53	60.00*	3000	1.30	-								
	29	46	48.00*	3000	1.50	-								
	36	42	39.00*	3000	1.65	-								
	43	35	32.50*	3000	2.00	-								
	51	33	27.50*	3000	2.1	-		**W**	**30**	**EDRS**	**71S4**		12	621
	57	30	24.50*	3000	2.3	-		**WF**	**30**	**EDRS**	**71S4**		12	622
	72	26	19.50*	3000	2.7	-		**WA**	**30**	**EDRS**	**71S4**		11	624
	86	22	16.33	3000	2.7	-		**WAF**	**30**	**EDRS**	**71S4**		12	623
	98	20	14.33	3000	3.0	-								
	137	15	10.25*	3000	3.3	-								
	171	12	8.20*	3000	3.2	-								
	214	10	6.57	2900	3.8	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.25	**36**	38	39.00*	2200	1.05	-								
	43	37	32.50*	2200	1.10	-								
	51	31	27.50*	2200	1.30	-								
	57	28	24.50*	2200	1.40	-		**W**	**20**		**EDRS**	**71S4**	9.1	618
	72	24	19.50*	2200	1.45	-		**WF**	**20**		**EDRS**	**71S4**	9.2	619
	85	21	16.50*	2200	1.40	-		**WA**	**20**		**EDRS**	**71S4**	8.8	620
	98	20	14.33	2200	1.55	-		**WAF**	**20**		**EDRS**	**71S4**	8.8	619
	137	15	10.25*	2120	1.70	-								
	171	12	8.20*	1930	1.65	-								
	214	10	6.57	1830	2.00	-								
0.37	**15**	183	95	6520	1.00	-		**W**	**47R17**		**EDRS**	**71M4**	22	634
	16	163	85	6640	1.05	-		**WF**	**47R17**		**EDRS**	**71M4**	23	634
	18	151	77	6700	1.20	-		**WA**	**47R17**		**EDRS**	**71M4**	21	634
	19	139	72	6770	1.25	-		**WAF**	**47R17**		**EDRS**	**71M4**	22	634
	18	138	74.98	6660	1.30	-								
	20	128	68.93	6720	1.40	-								
	23	112	58.98	6820	1.60	-								
	27	98	51.12	6900	1.85	-								
	29	92	47.78	6930	1.95	-								
	33	81	41.30	6940	2.2	-								
	39	70	35.09	6660	2.6	-								
	43	69	31.62	6560	2.3	-								
	44	63	31.33	6470	2.8	-		**W**	**47**		**EDRS**	**71M4**	22	630
	50	60	27.41	6320	2.7	-		**WF**	**47**		**EDRS**	**71M4**	22	631
	51	55	26.76	6200	3.3	-		**WA**	**47**		**EDRS**	**71M4**	20	632
	54	56	25.62	6200	2.8	-		**WAF**	**47**		**EDRS**	**71M4**	21	631
	55	52	25.07	6100	3.5	-								
	62	49	22.15	5960	3.2	-								
	73	42	18.82	5690	3.8	-								
	82	38	16.80	5500	4.2	-								
	96	33	14.35	5260	4.9	-								
	112	30	12.30	5120	3.7	-								
	129	26	10.66	4900	4.2	-								
	138	24	9.96	4800	4.5	-								
	26	96	53.92	3530	1.15	-								
	30	84	46.49	3680	1.30	-	X							
	36	70	37.88	3830	1.55	-	X							
	40	73	34.52	3800	1.25	-								
	43	67	31.67	3860	1.35	-								
	50	54	27.78	3960	2.1	-								
	51	58	26.96	3930	1.55	-								
	59	50	23.25	3980	1.80	-		**W**	**37**		**EDRS**	**71M4**	14	625
	64	42	21.33	4030	2.5	-		**WF**	**37**		**EDRS**	**71M4**	14	626
	73	42	18.94	4040	2.2	-		**WA**	**37**		**EDRS**	**71M4**	14	628
	88	35	15.67	4070	2.6	-		**WAF**	**37**		**EDRS**	**71M4**	14	626
	99	31	13.89	4030	2.9	-								
	108	30	12.70	4090	2.3	-								
	118	28	11.65	3990	2.6	-								
	129	24	10.67	3750	3.7	-								
	139	24	9.92	3800	3.0	-								
	161	20	8.55	3630	3.4	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
0.37	**29**	70	48.00*	3000	1.00	-								
	35	63	39.00*	3000	1.10	-								
	42	53	32.50*	3000	1.30	-								
	50	49	27.50*	3000	1.40	-								
	56	46	24.50*	3000	1.50	-		**W**	**30**	**EDRS**	**71M4**		13	621
	71	39	19.50*	3000	1.80	-		**WF**	**30**	**EDRS**	**71M4**		13	622
	84	34	16.33	3000	1.80	-		**WA**	**30**	**EDRS**	**71M4**		13	624
	96	30	14.33	3000	1.95	-		**WAF**	**30**	**EDRS**	**71M4**		13	623
	134	23	10.25*	3000	2.2	-								
	168	19	8.20*	3000	2.1	-								
	209	16	6.57	2870	2.6	-								
	96	30	14.33	2200	1.00	-		**W**	**20**	**EDRS**	**71M4**		10	618
	134	22	10.25*	2090	1.15	-		**WF**	**20**	**EDRS**	**71M4**		11	619
	168	18	8.20*	1870	1.10	-		**WA**	**20**	**EDRS**	**71M4**		10	620
	209	15	6.57	1800	1.30	-		**WAF**	**20**	**EDRS**	**71M4**		10	619
0.55	**24**	162	58.98	6520	1.10	-								
	28	142	51.12	6640	1.25	-								
	30	134	47.78	6590	1.35	-								
	34	118	41.30	6410	1.55	-		**W**	**47**	**EDRS**	**80S4**		23	630
	40	101	35.09	6200	1.80	-		**WF**	**47**	**EDRS**	**80S4**		23	631
	45	100	31.62	6170	1.60	-		**WA**	**47**	**EDRS**	**80S4**		21	632
	45	92	31.33	6040	1.95	-		**WAF**	**47**	**EDRS**	**80S4**		22	631
	52	87	27.41	5970	1.85	-								
	55	82	25.62	5870	1.95	-								
	37	102	37.88	3440	1.10	-								
	51	78	27.78	3760	1.40	-	X							
	52	84	26.96	3690	1.05	-								
	61	73	23.25	3800	1.25	-								
	66	61	21.33	3910	1.75	-								
	75	60	18.94	3920	1.50	-								
	90	50	15.67	3920	1.80	-		**W**	**37**	**EDRS**	**80S4**		17	625
	102	45	13.89	3810	2.0	-		**WF**	**37**	**EDRS**	**80S4**		17	626
	133	35	10.67	3570	2.6	-		**WA**	**37**	**EDRS**	**80S4**		17	628
	143	34	9.92	3690	2.1	-		**WAF**	**37**	**EDRS**	**80S4**		17	626
	165	29	8.55	3530	2.4	-								
	203	24	6.97	3320	2.9	-								
	245	20	5.77	3140	3.5	-								
	277	18	5.11	3020	4.0	-								
	360	14	3.93	2790	5.2	-								
	58	67	24.50*	3000	1.05	-								
	87	48	16.33	3000	1.25	-		**W**	**30**	**EDRS**	**80S4**		15	621
	99	44	14.33	3000	1.35	-		**WF**	**30**	**EDRS**	**80S4**		15	622
	138	33	10.25*	3000	1.50	-		**WA**	**30**	**EDRS**	**80S4**		15	624
	173	27	8.20*	2960	1.50	-		**WAF**	**30**	**EDRS**	**80S4**		15	623
	215	23	6.57	2780	1.75	-								
0.75	**30**	180	47.78	5970	1.00	-								
	35	158	41.30	5860	1.15	-								
	41	136	35.09	5720	1.30	-								
	45	134	31.62	5770	1.20	-								
	46	123	31.33	5610	1.45	-		**W**	**47**	**EDRE**	**80M4**		25	630
	52	117	27.41	5620	1.35	-		**WF**	**47**	**EDRE**	**80M4**		26	631
	54	107	26.76	5450	1.70	-		**WA**	**47**	**EDRE**	**80M4**		24	632
	56	110	25.62	5540	1.45	-		**WAF**	**47**	**EDRE**	**80M4**		25	631
	57	100	25.07	5380	1.80	-								
	65	96	22.15	5370	1.65	-								
	76	82	18.82	5180	1.95	-								
	117	58	12.30	4860	1.90	-								

P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠						m [kg]	
0.75	**52**	104	27.78	3410	1.05	-							
	67	82	21.33	3710	1.30	-							
	76	81	18.94	3720	1.10	-							
	92	68	15.67	3680	1.35	-							
	103	61	13.89	3590	1.50	-							
	135	47	10.67	3400	1.90	-	**W**	**37**	**EDRE**	**80M4**	19	625
	145	46	9.92	3590	1.55	-	**WF**	**37**	**EDRE**	**80M4**	19	626
	168	39	8.55	3450	1.80	-	**WA**	**37**	**EDRE**	**80M4**	19	628
	206	32	6.97	3250	2.2	-	**WAF**	**37**	**EDRE**	**80M4**	19	626
	249	27	5.77	3080	2.6	-						
	281	24	5.11	2970	2.9	-						
	366	18	3.93	2740	3.8	-						
	448	15	3.20*	2580	4.7	-						
	100	59	14.33	3000	1.00	-	**W**	**30**	**EDRE**	**80M4**	18	621
	140	44	10.25*	3000	1.10	-	**WF**	**30**	**EDRE**	**80M4**	18	622
	175	36	8.20*	2850	1.10	-	**WA**	**30**	**EDRE**	**80M4**	17	624
	218	31	6.57	2700	1.30	-	**WAF**	**30**	**EDRE**	**80M4**	18	623
1.1	**53**	158	26.76	4830	1.15	-							
	57	149	25.07	4800	1.20	-							
	64	142	22.15	4910	1.15	-							
	75	122	18.82	4780	1.30	-							
	85	109	16.80	4690	1.45	-	**W**	**47**	**EDRE**	**90M4**	29	630
	99	94	14.35	4550	1.70	-	**WF**	**47**	**EDRE**	**90M4**	30	631
	106	88	13.44	4490	1.80	-	**WA**	**47**	**EDRE**	**90M4**	28	632
	115	86	12.30	4690	1.30	-	**WAF**	**47**	**EDRE**	**90M4**	28	631
	133	75	10.66	4520	1.45	-						
	143	70	9.96	4440	1.55	-						
	165	61	8.61	4270	1.80	-						
	102	90	13.89	3230	1.00	-						
	133	70	10.67	3120	1.30	-						
	143	68	9.92	3460	1.05	-						
	166	58	8.55	3330	1.20	-	**W**	**37**	**EDRE**	**90M4**	23	625
	204	48	6.97	3160	1.45	-	**WF**	**37**	**EDRE**	**90M4**	23	626
	246	40	5.77	3000	1.75	-	**WA**	**37**	**EDRE**	**90M4**	23	628
	278	35	5.11	2900	2.00	-	**WAF**	**37**	**EDRE**	**90M4**	23	626
	362	27	3.93	2690	2.6	-						
	444	22	3.20*	2540	3.2	-						
1.5	**85**	148	16.80	4270	1.10	-							
	100	127	14.35	4190	1.25	-							
	106	120	13.44	4150	1.35	-							
	126	102	11.32	4040	1.60	-	**W**	**47**	**EDRE**	**90L4**	32	630
	134	101	10.66	4330	1.10	-	**WF**	**47**	**EDRE**	**90L4**	32	631
	144	95	9.96	4260	1.15	-	**WA**	**47**	**EDRE**	**90L4**	30	632
	166	82	8.61	4110	1.35	-	**WAF**	**47**	**EDRE**	**90L4**	31	631
	195	70	7.32	3950	1.55	-						
	219	63	6.53	3830	1.75	-						
	205	65	6.97	3030	1.10	-						
	248	54	5.77	2900	1.30	-	**W**	**37**	**EDRE**	**90L4**	26	625
	280	48	5.11	2810	1.45	-	**WF**	**37**	**EDRE**	**90L4**	26	626
	364	37	3.93	2620	1.90	-	**WA**	**37**	**EDRE**	**90L4**	26	628
	447	30	3.20*	2480	2.3	-	**WAF**	**37**	**EDRE**	**90L4**	26	626

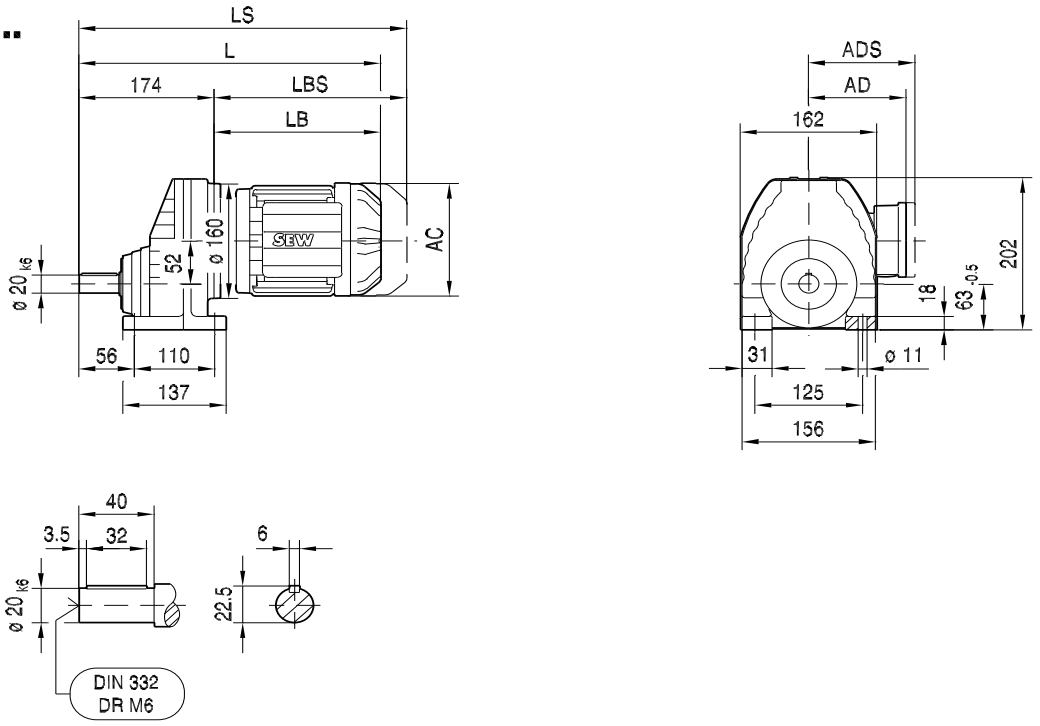
P_m [kW]	n_a [1/min]	M_a [Nm]	i	F_{Ra} [1)] [N]	SEW f_B	⚠							m [kg]	
2.2	**126**	149	11.32	3540	1.05	-								
	195	103	7.32	3730	1.05	-								
	218	92	6.53	3640	1.20	-	**W**	**47**		**EDRE**	**100M4**		37	630
	255	79	5.58	3510	1.40	-	**WF**	**47**		**EDRE**	**100M4**		37	631
	273	74	5.23	3460	1.50	-	**WA**	**47**		**EDRE**	**100M4**		35	632
	324	62	4.40	3310	1.75	-	**WAF**	**47**		**EDRE**	**100M4**		36	631
	366	55	3.89	3210	2.00	-								
	436	46	3.27	3070	2.4	-								
3.0	**261**	105	5.58	3300	1.05	-								
	278	99	5.23	3260	1.10	-	**W**	**47**		**EDRE**	**100LC4**		42	630
	330	83	4.40	3150	1.30	-	**WF**	**47**		**EDRE**	**100LC4**		42	631
	374	74	3.89	3060	1.50	-	**WA**	**47**		**EDRE**	**100LC4**		40	632
	445	62	3.27	2940	1.75	-	**WAF**	**47**		**EDRE**	**100LC4**		41	631

10 Dimension Sheets for Explosion-Proof EDR. Gearmotors

10.1 Helical gearmotors

01 116 00 09

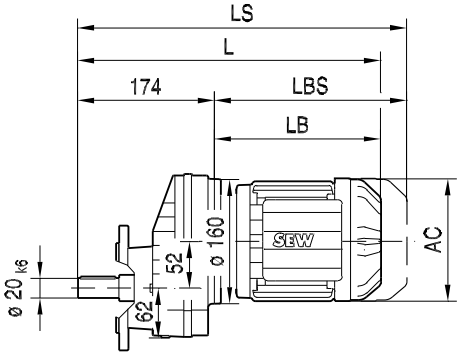
RX57..

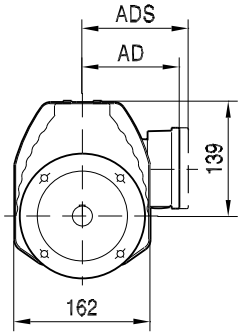


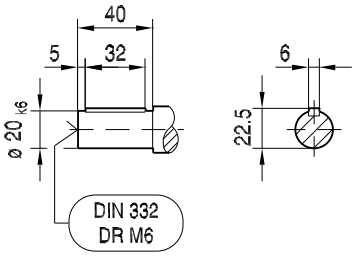
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC
AC	132	139	139	156	156	179	179	197	197	221	221
AD	105	129	129	139	139	150	150	158	158	172	172
ADS	105	129	129	139	139	150	150	158	158	172	172
L	359	370	395	404	435	437	457	487	517	564	614
LS	414	438	463	485	516	530	550	580	610	676	726
LB	185	196	221	230	261	263	283	313	343	390	440
LBS	240	264	289	311	342	356	376	406	436	502	552

01 117 00 09

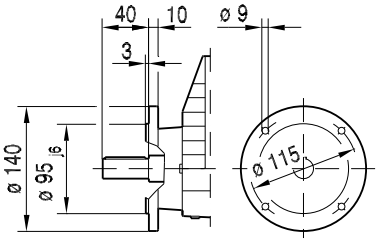
RXF57..



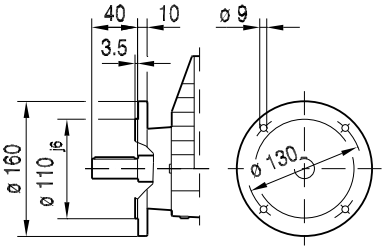




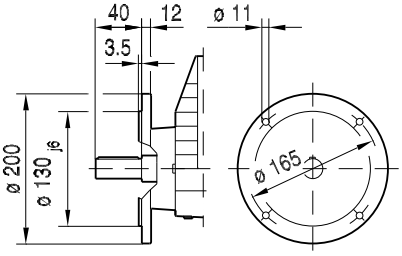
ø 140



ø 160



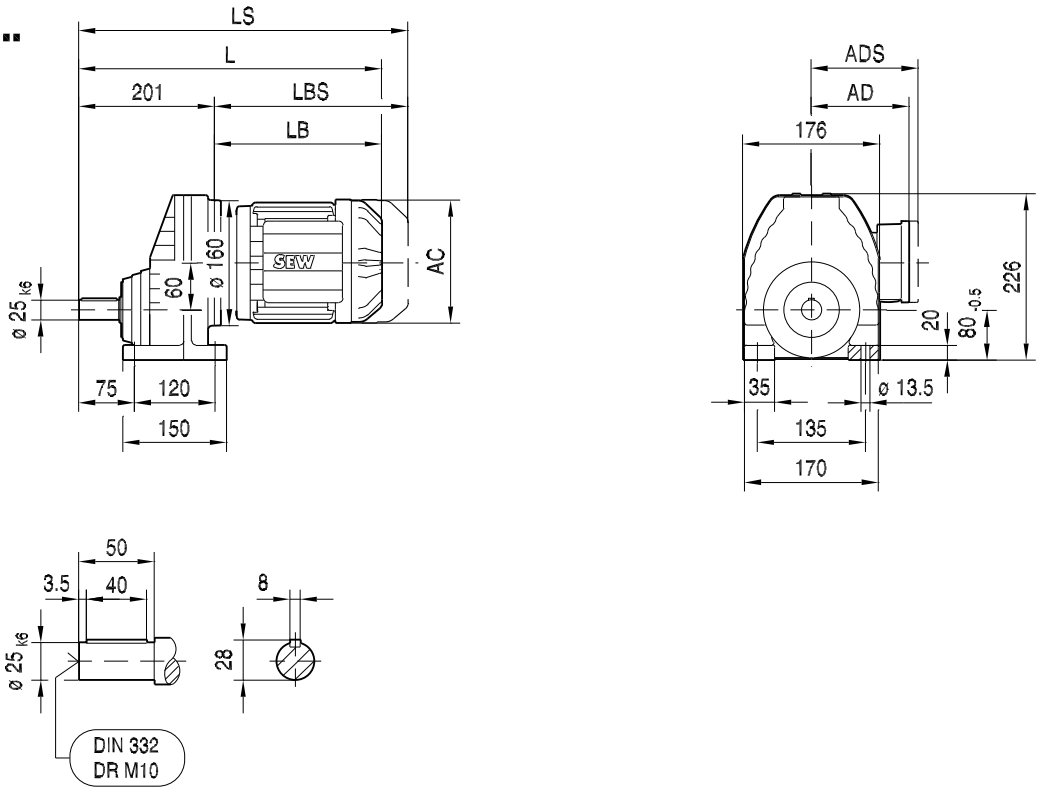
ø 200



(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC
AC	132	139	139	156	156	179	179	197	197	221	221
AD	105	129	129	139	139	150	150	158	158	172	172
ADS	105	129	129	139	139	150	150	158	158	172	172
L	359	370	395	404	435	437	457	487	517	564	614
LS	414	438	463	485	516	530	550	580	610	676	726
LB	185	196	221	230	261	263	283	313	343	390	440
LBS	240	264	289	311	342	356	376	406	436	502	552

01 118 00 09

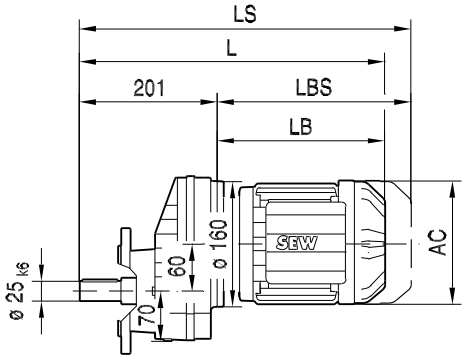
RX67..

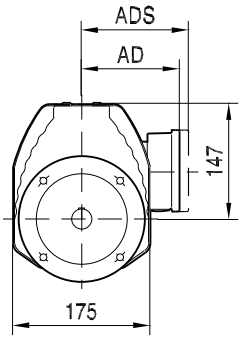


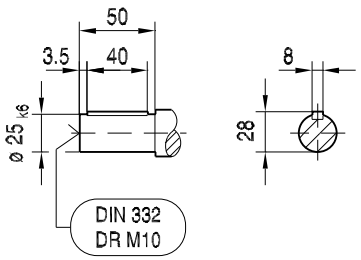
(→ 127)	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..
AC	139	156	156	179	179	197	197	221	221	270
AD	129	139	139	150	150	158	158	172	172	228
ADS	129	139	139	150	150	158	158	172	172	228
L	422	431	462	464	484	514	544	591	641	682
LS	490	512	543	557	577	607	637	703	753	819
LB	221	230	261	263	283	313	343	390	440	481
LBS	289	311	342	356	376	406	436	502	552	618

01 119 00 09

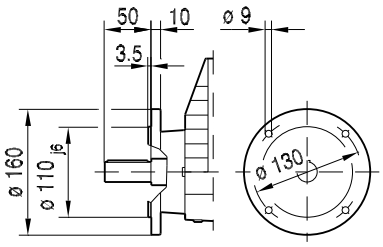
RXF67..



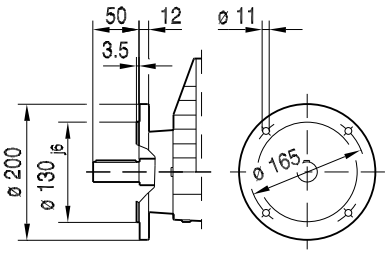




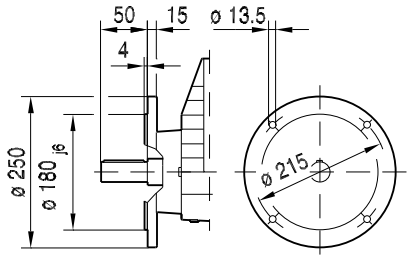
ø 160



ø 200



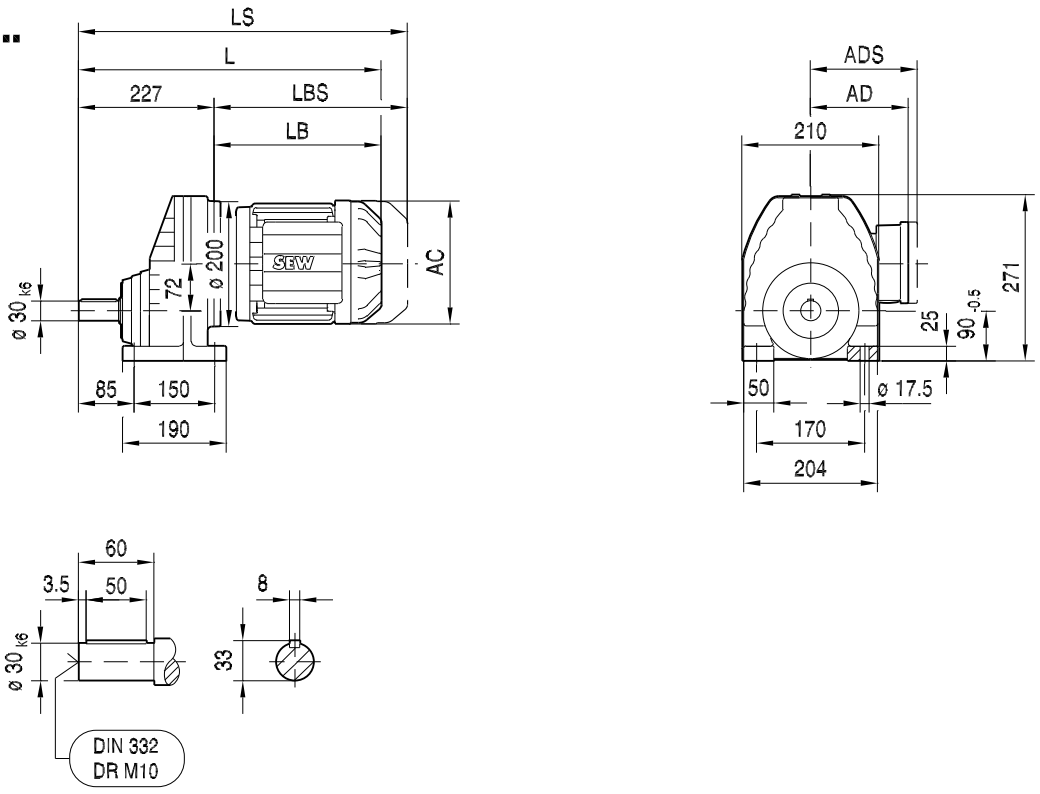
ø 250



(→ 127)	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..
AC	139	156	156	179	179	197	197	221	221	270
AD	129	139	139	150	150	158	158	172	172	228
ADS	129	139	139	150	150	158	158	172	172	228
L	422	431	462	464	484	514	544	591	641	682
LS	490	512	543	557	577	607	637	703	753	819
LB	221	230	261	263	283	313	343	390	440	481
LBS	289	311	342	356	376	406	436	502	552	618

01 120 00 09

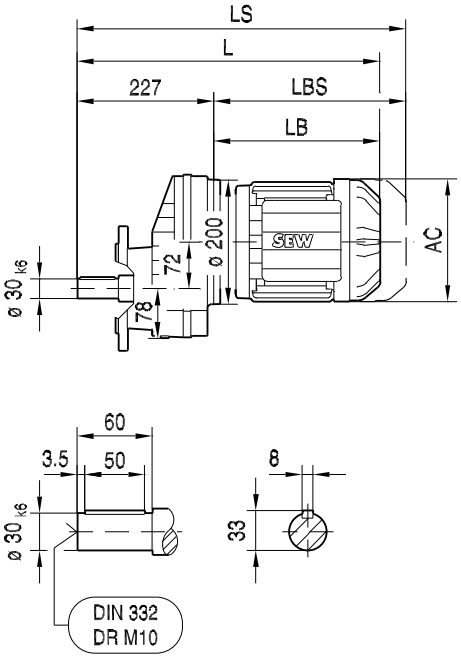
RX77..

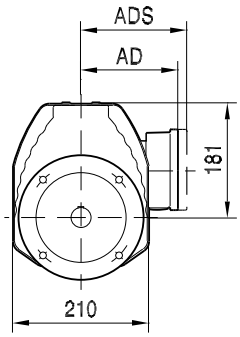


(→ 127)	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	
AC	179	179	197	197	221	221	270	
AD	150	150	158	158	172	172	228	
ADS	150	150	158	158	172	172	228	
L	483	503	533	563	606	656	697	
LS	576	596	626	656	718	768	834	
LB	256	276	306	336	379	429	470	
LBS	349	369	399	429	491	541	607	

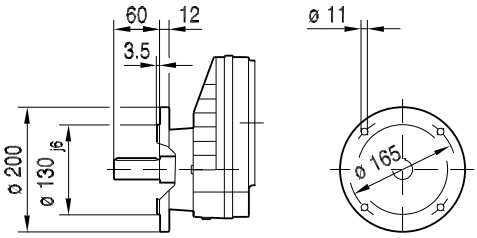
01 121 00 09

RXF77..

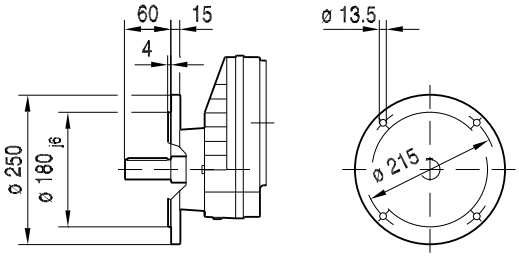




ø 200



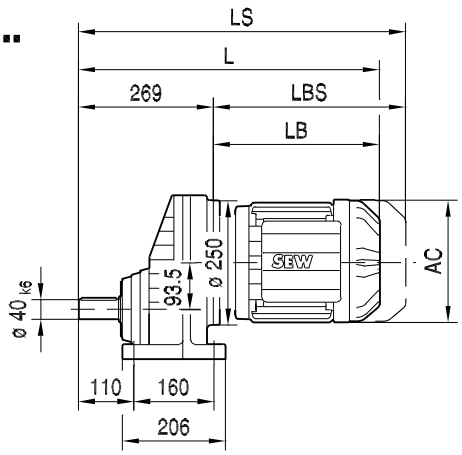
ø 250

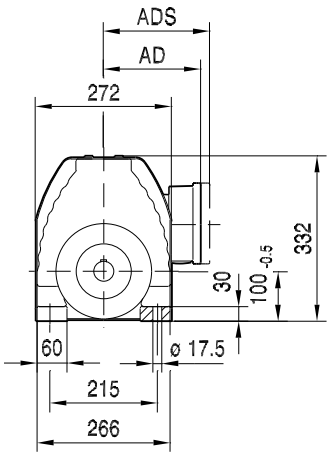


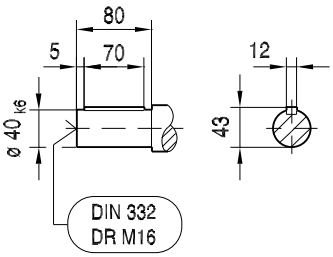
(→ 127)	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	
AC	179	179	197	197	221	221	270	
AD	150	150	158	158	172	172	228	
ADS	150	150	158	158	172	172	228	
L	483	503	533	563	606	656	697	
LS	576	596	626	656	718	768	834	
LB	256	276	306	336	379	429	470	
LBS	349	369	399	429	491	541	607	

01 122 00 09

RX87..





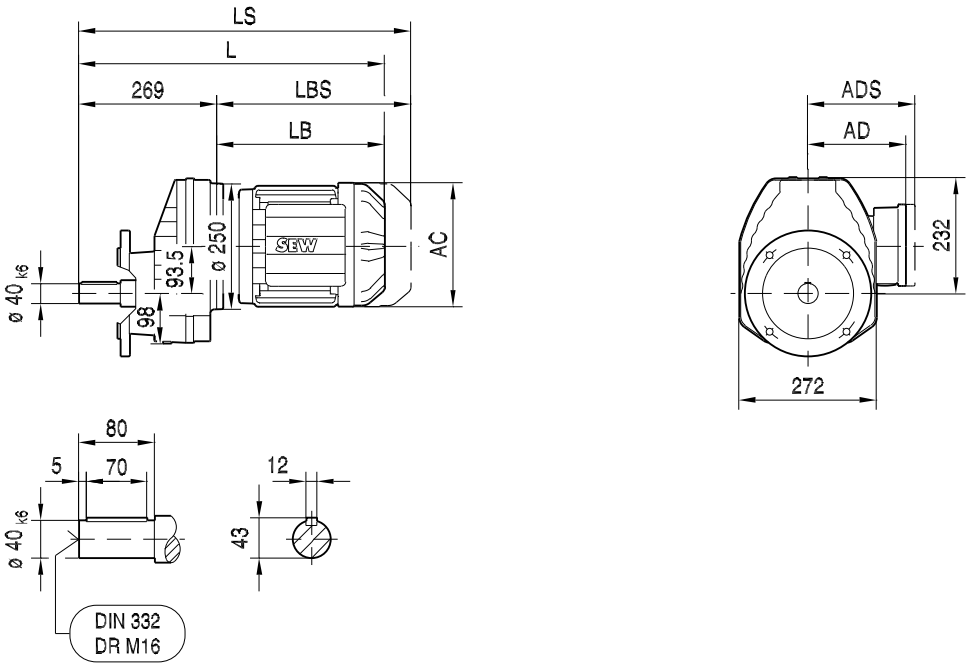


10

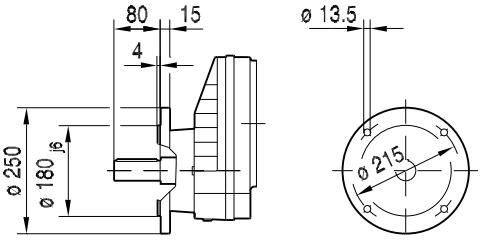
(→ 127)	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC		
AC	197	221	221	270	316	316		
AD	158	172	172	228	253	253		
ADS	158	172	172	228	253	253		
L	600	643	693	734	803	863		
LS	693	755	805	871	992	1052		
LB	331	374	424	465	534	594		
LBS	424	486	536	602	723	783		

01 123 00 09

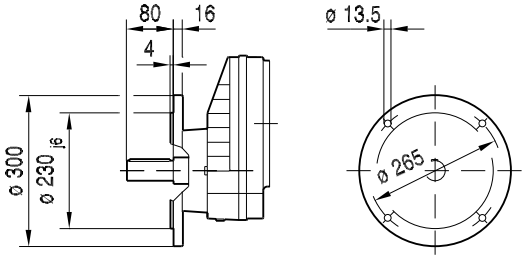
RXF87..



ø 250



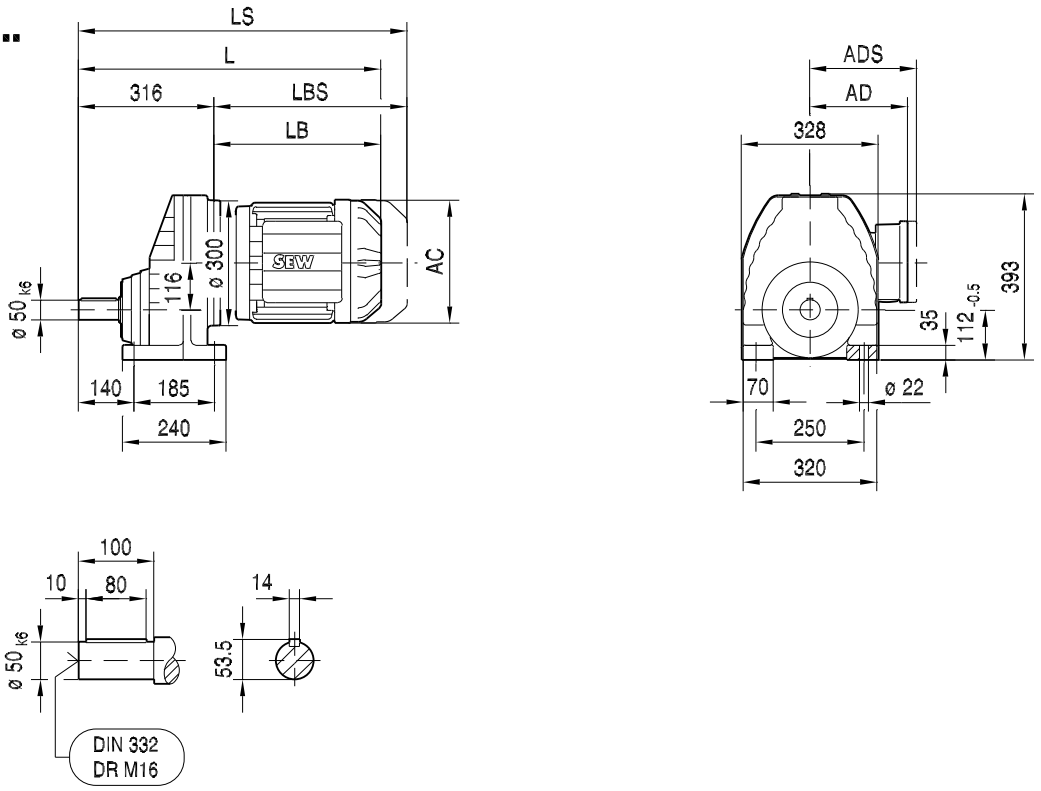
ø 300



(→ 127)	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC		
AC	197	221	221	270	316	316		
AD	158	172	172	228	253	253		
ADS	158	172	172	228	253	253		
L	600	643	693	734	803	863		
LS	693	755	805	871	992	1052		
LB	331	374	424	465	534	594		
LBS	424	486	536	602	723	783		

01 124 00 09

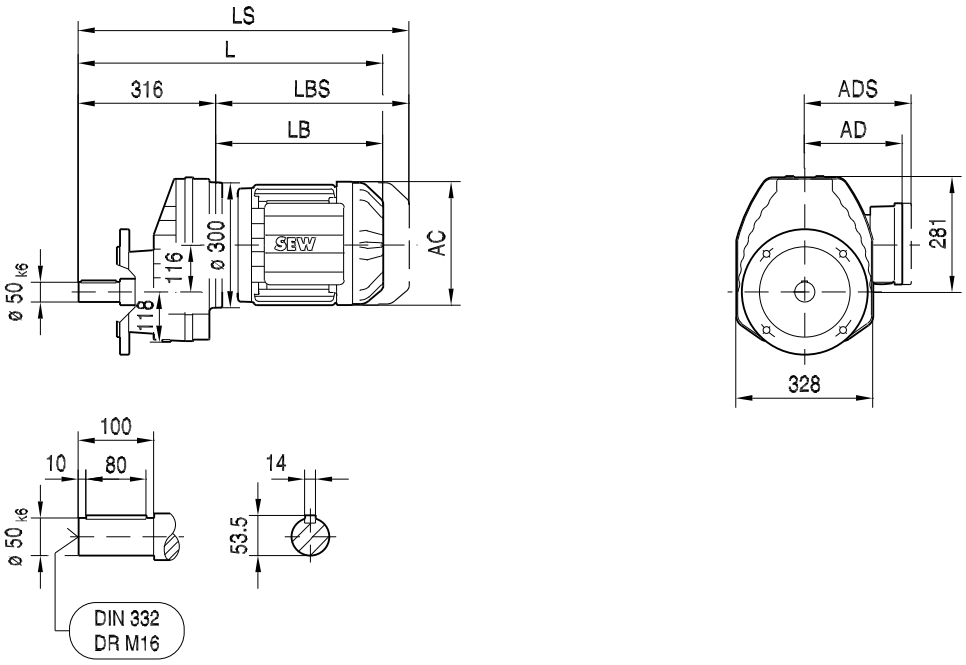
RX97..



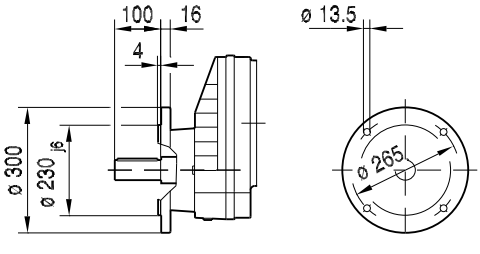
(→ 127)	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S		
AC	221	270	316	316	394	394		
AD	172	228	253	253	283	283		
ADS	172	228	253	253	283	283		
L	735	776	845	905	978	978		
LS	847	913	1034	1094	1183	1183		
LB	419	460	529	589	662	662		
LBS	531	597	718	778	867	867		

01 125 00 09

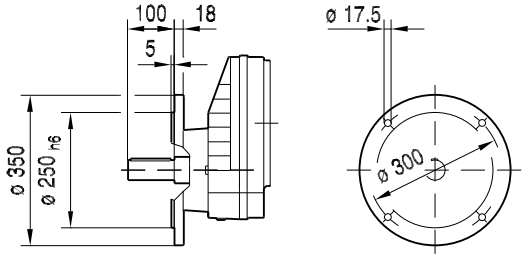
RXF97..



ø 300



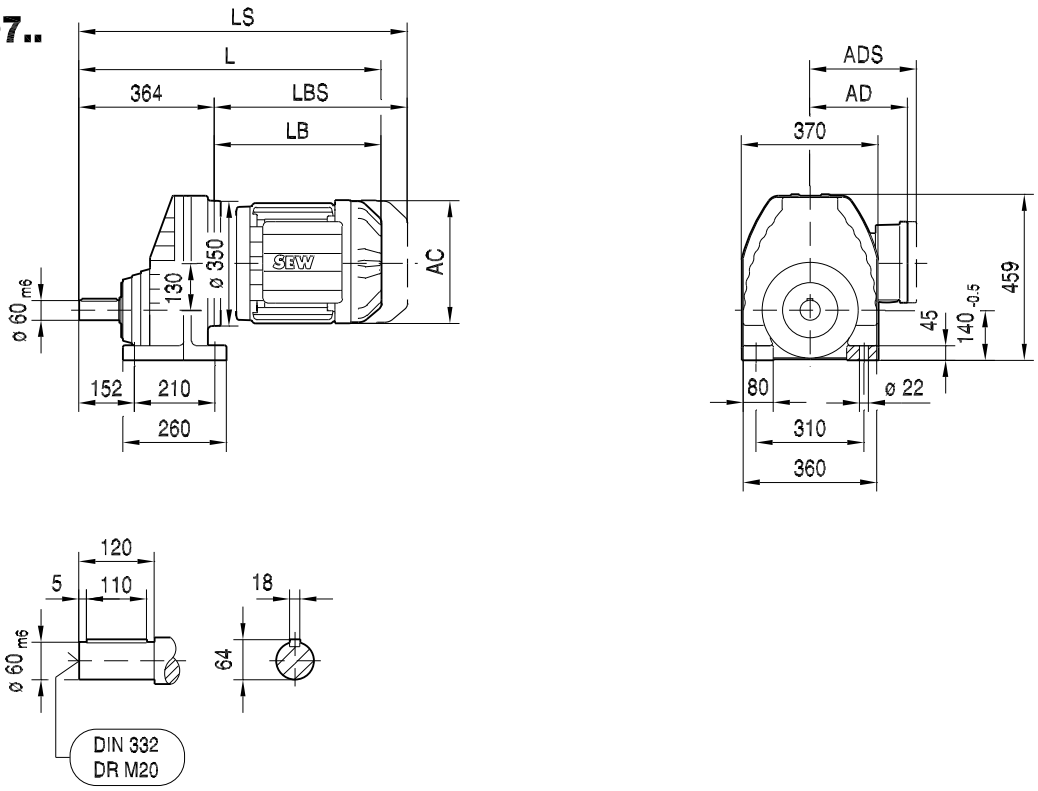
ø 350



(→ 127)	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S		
AC	221	270	316	316	394	394		
AD	172	228	253	253	283	283		
ADS	172	228	253	253	283	283		
L	735	776	845	905	978	978		
LS	847	913	1034	1094	1183	1183		
LB	419	460	529	589	662	662		
LBS	531	597	718	778	867	867		

01 126 00 09

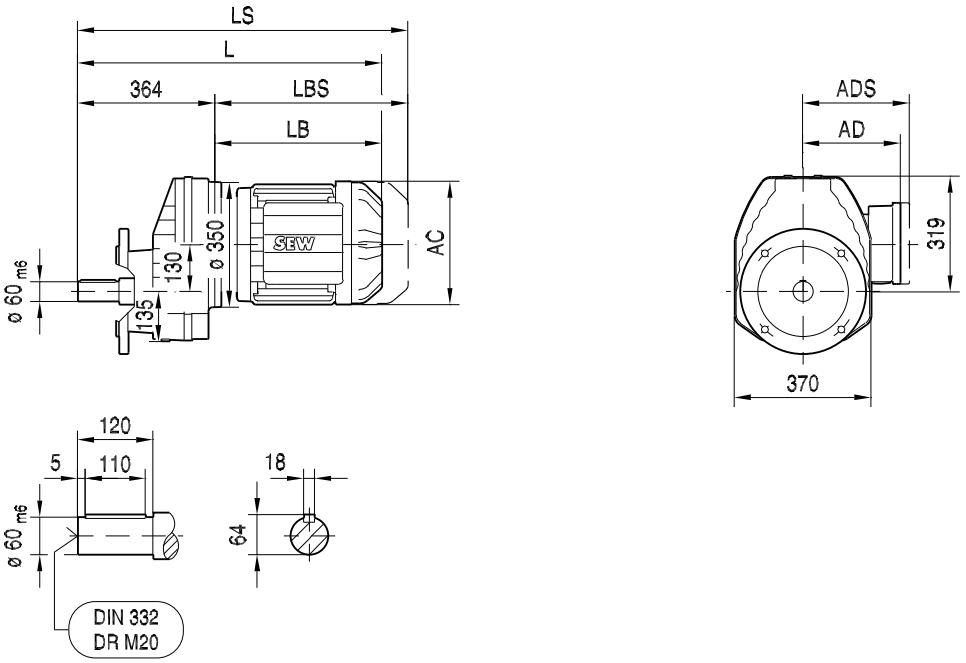
RX107..



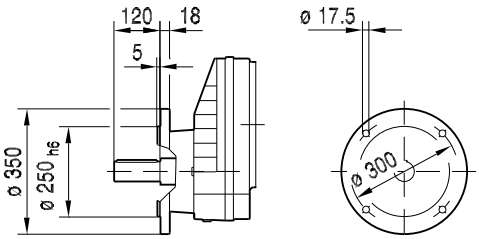
(→ 127)	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	
AC	221	270	316	316	394	394	394	
AD	172	228	253	253	283	283	283	
ADS	172	228	253	253	283	283	283	
L	777	818	887	947	1020	1020	1070	
LS	889	955	1076	1136	1225	1225	1275	
LB	413	454	523	583	656	656	706	
LBS	525	591	712	772	861	861	911	

01 127 00 09

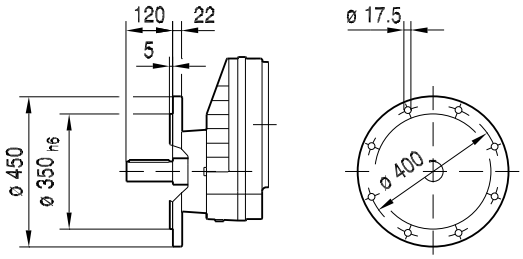
RXF107..



ø 350



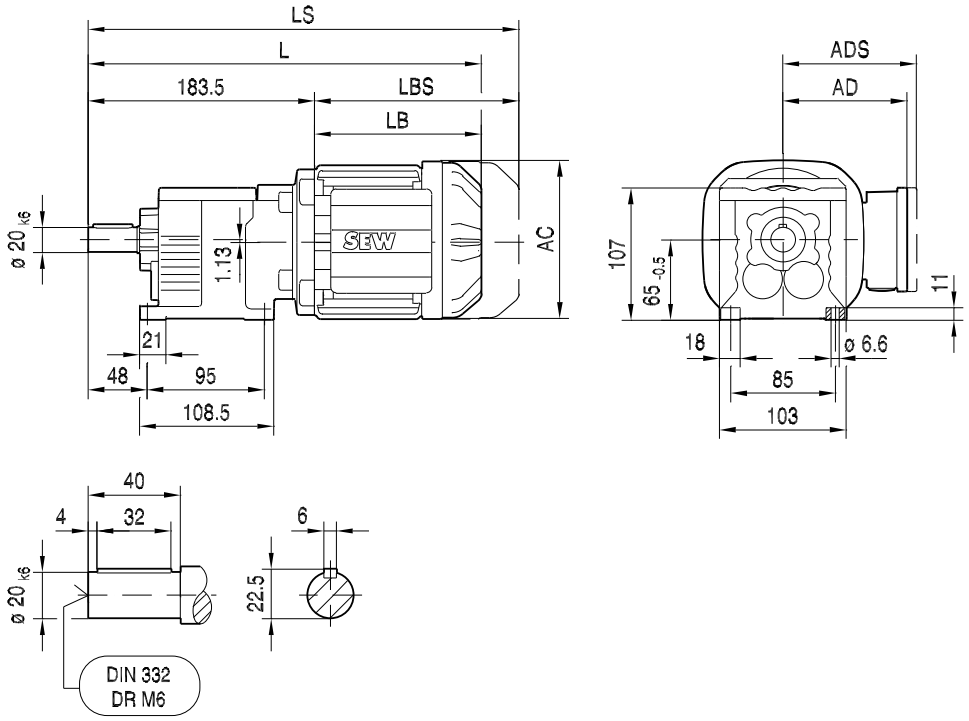
ø 450



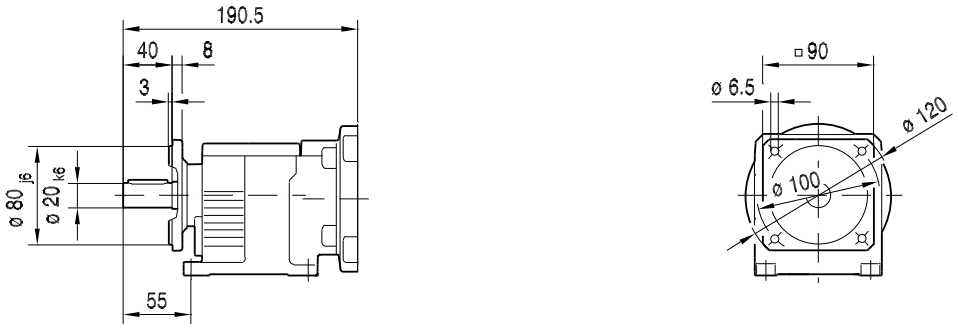
(→ 127)	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	
AC	221	270	316	316	394	394	394	
AD	172	228	253	253	283	283	283	
ADS	172	228	253	253	283	283	283	
L	777	818	887	947	1020	1020	1070	
LS	889	955	1076	1136	1225	1225	1275	
LB	413	454	523	583	656	656	706	
LBS	525	591	712	772	861	861	911	

01 128 00 09

R07..



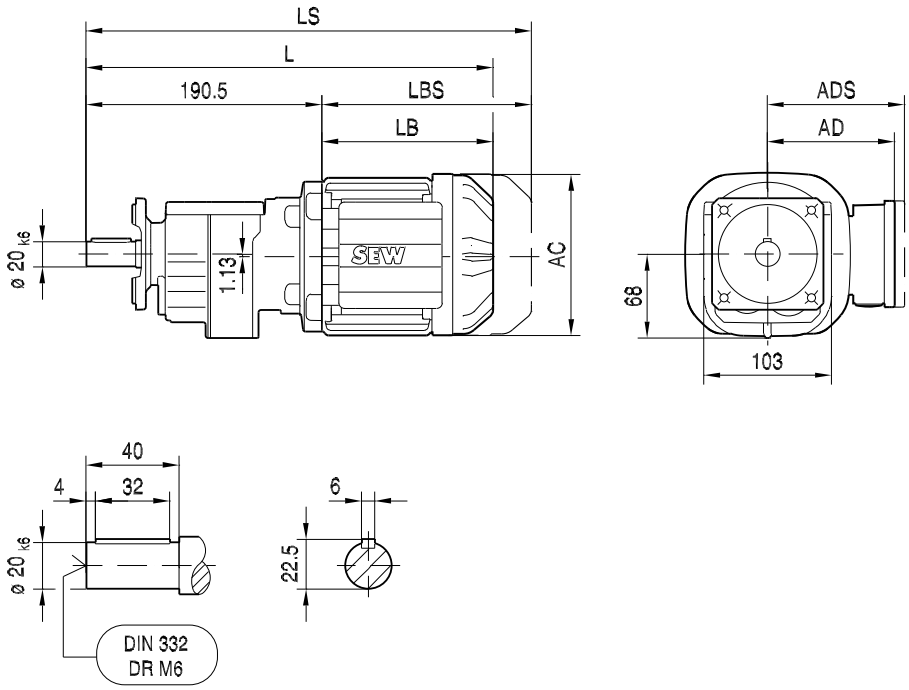
R07F..



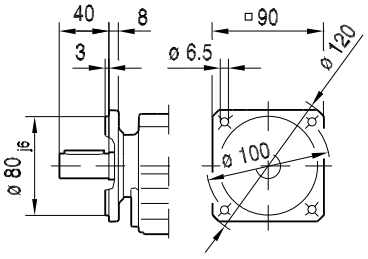
(→ 127)	DR63..	EDR71S	EDR71M					
AC	132	139	139					
AD	105	129	129					
ADS	105	129	129					
L	333	344	369					
LS	388	412	437					
LB	149	160	185					
LBS	204	228	253					

01 129 00 09

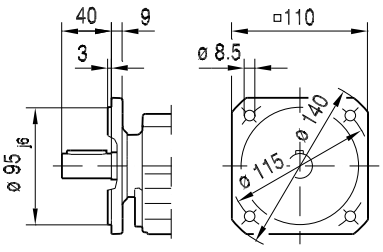
RF07..



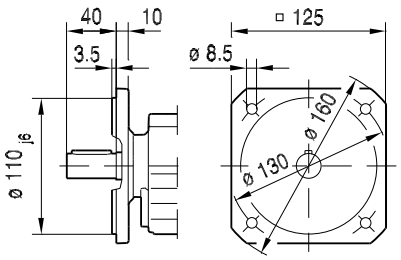
ø 120



ø 140



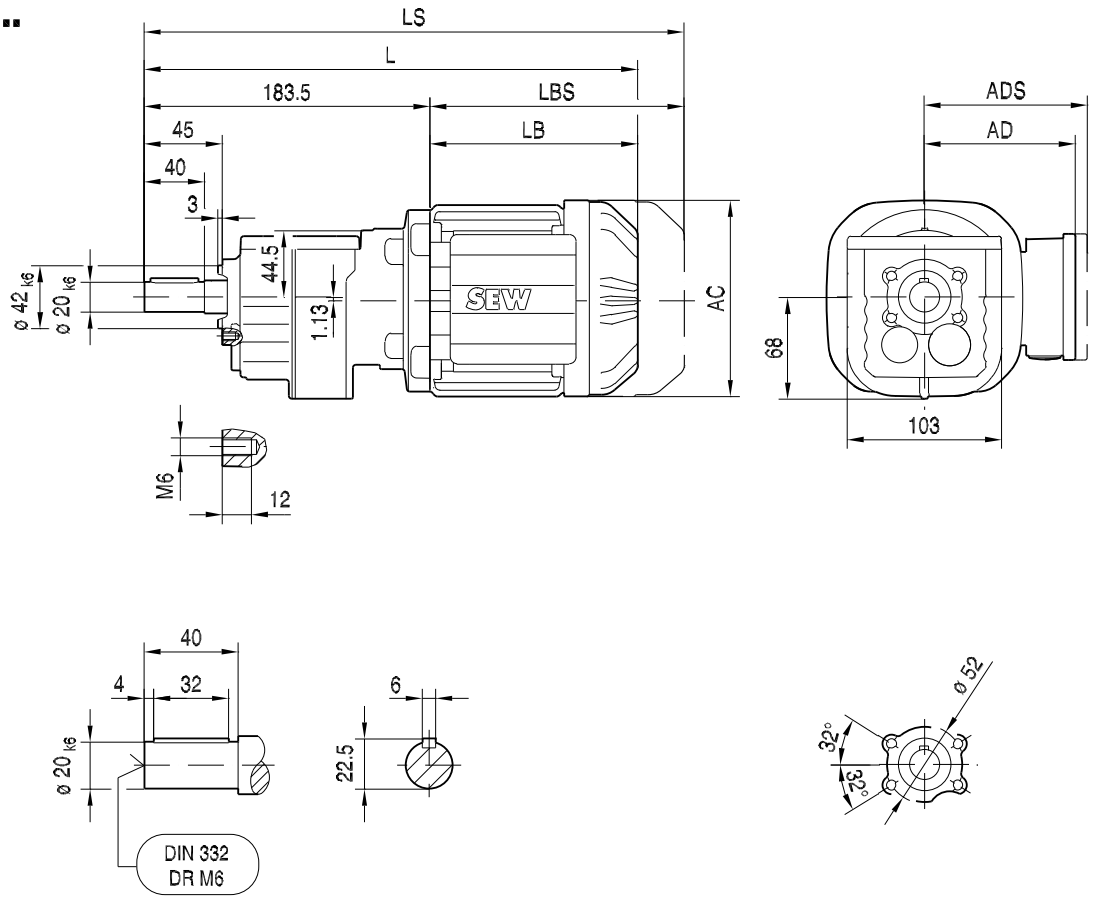
ø 160



(→ 127)	DR63..	EDR71S	EDR71M					
AC	132	139	139					
AD	105	129	129					
ADS	105	129	129					
L	340	351	376					
LS	395	419	444					
LB	149	160	185					
LBS	204	228	253					

01 130 00 09

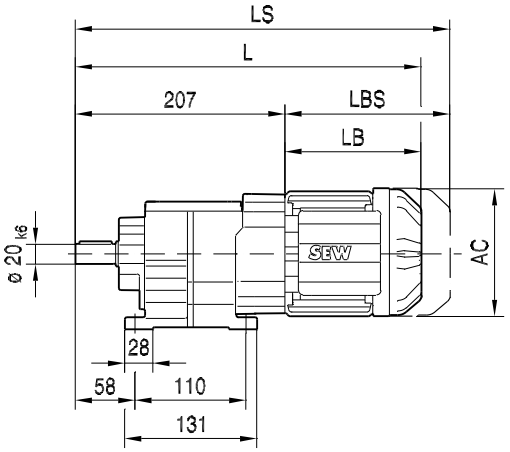
RZ07..

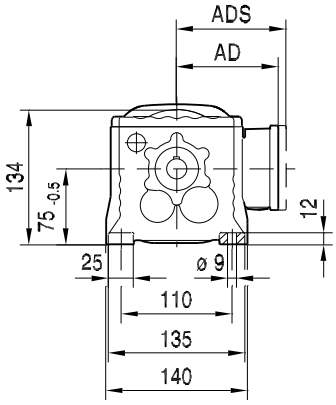


(→ 127)	DR63..	EDR71S	EDR71M					
AC	132	139	139					
AD	105	129	129					
ADS	105	129	129					
L	333	344	369					
LS	388	412	437					
LB	149	160	185					
LBS	204	228	253					

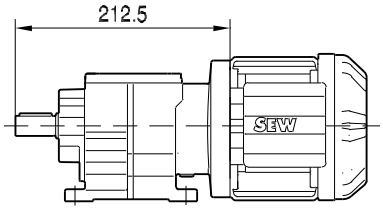
01 131 00 09

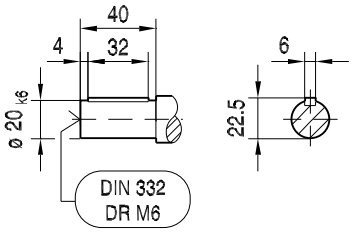
R17..



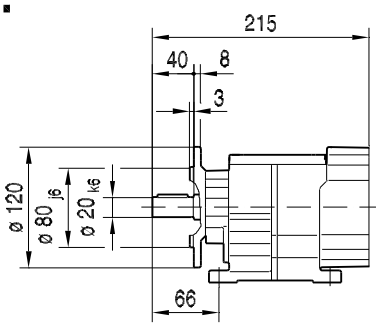


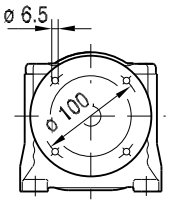
DR80..



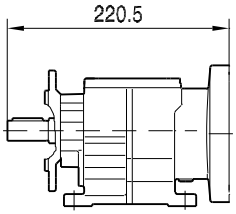


R17F..





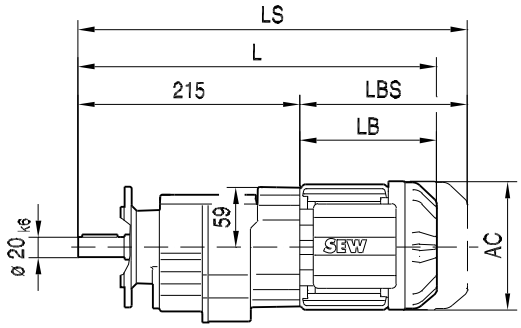
DR80..

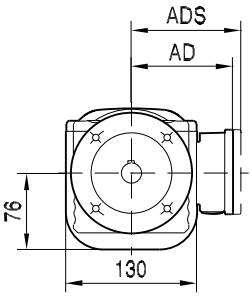


(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M			
AC	132	139	139	156	156			
AD	105	129	129	139	139			
ADS	105	129	129	139	139			
L	356	367	392	396	427			
LS	411	435	460	477	508			
LB	149	160	185	189	220			
LBS	204	228	253	270	301			

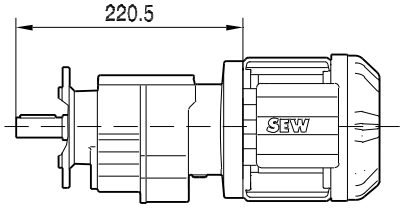
01 132 00 09

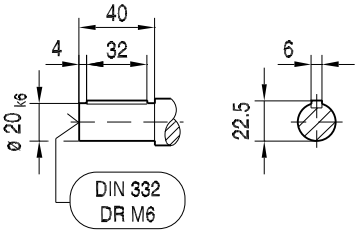
RF17..



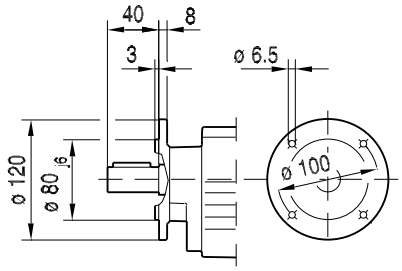


DR80..

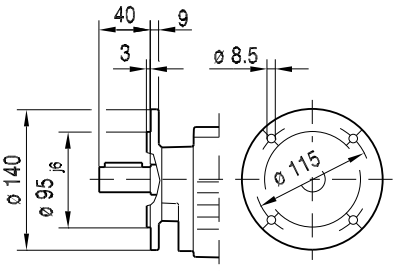




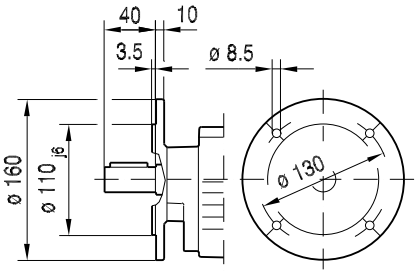
ø 120



ø 140



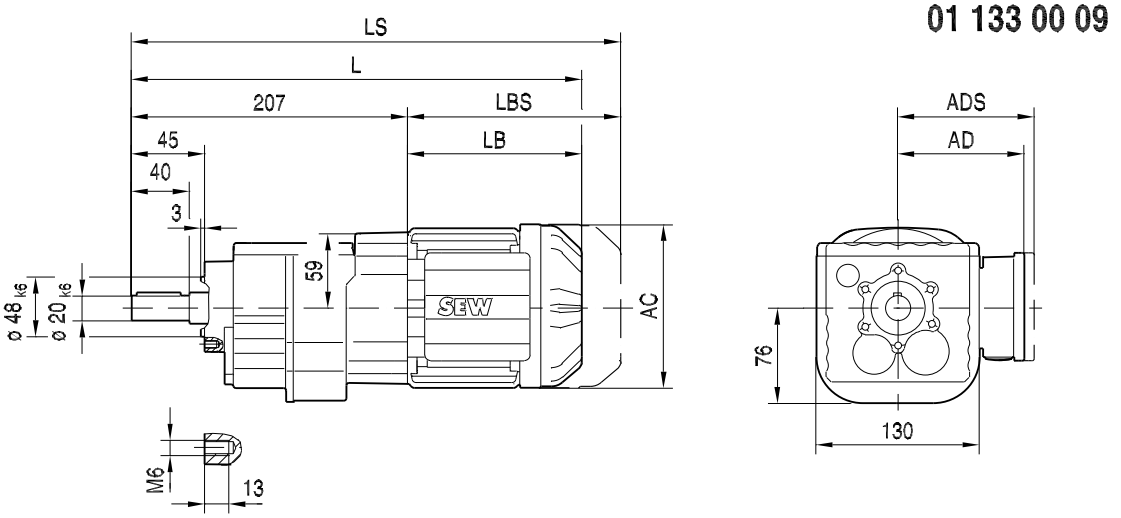
ø 160



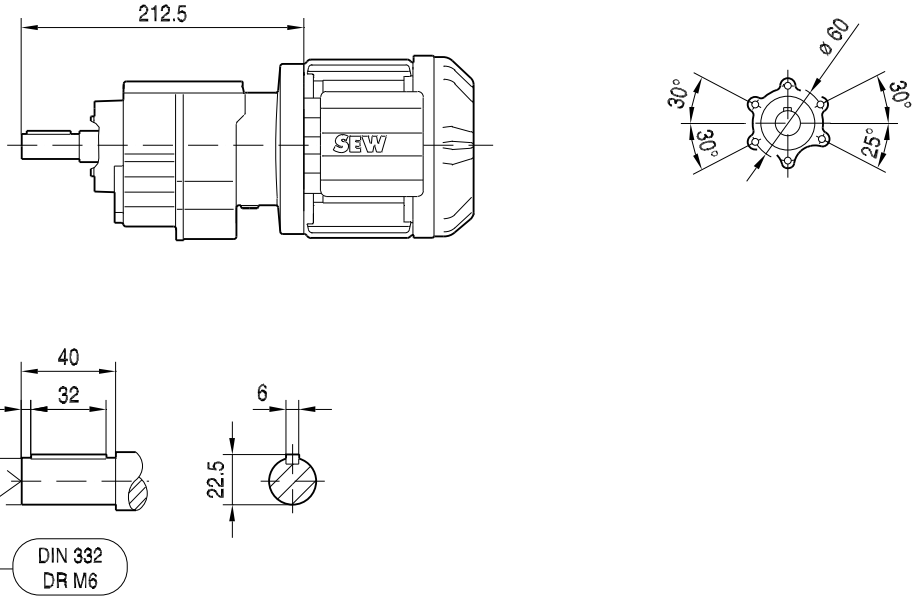
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M			
AC	132	139	139	156	156			
AD	105	129	129	139	139			
ADS	105	129	129	139	139			
L	364	375	400	404	435			
LS	419	443	468	485	516			
LB	149	160	185	189	220			
LBS	204	228	253	270	301			

01 133 00 09

RZ17..



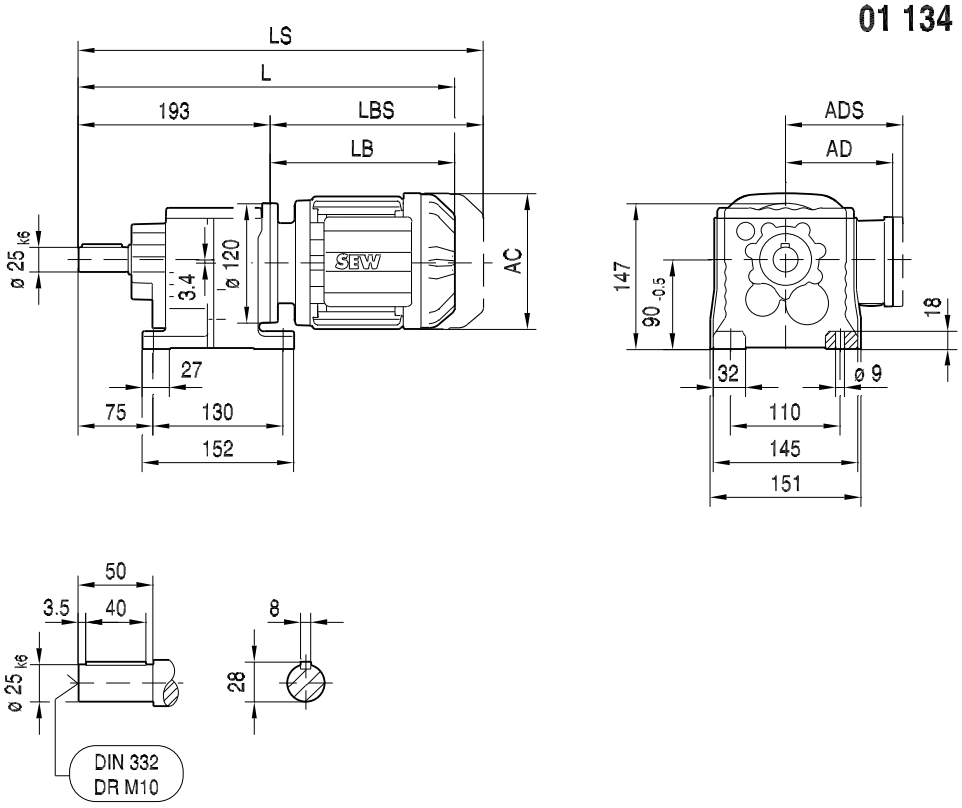
DR80..



(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M			
AC	132	139	139	156	156			
AD	105	129	129	139	139			
ADS	105	129	129	139	139			
L	356	367	392	396	427			
LS	411	435	460	477	508			
LB	149	160	185	189	220			
LBS	204	228	253	270	301			

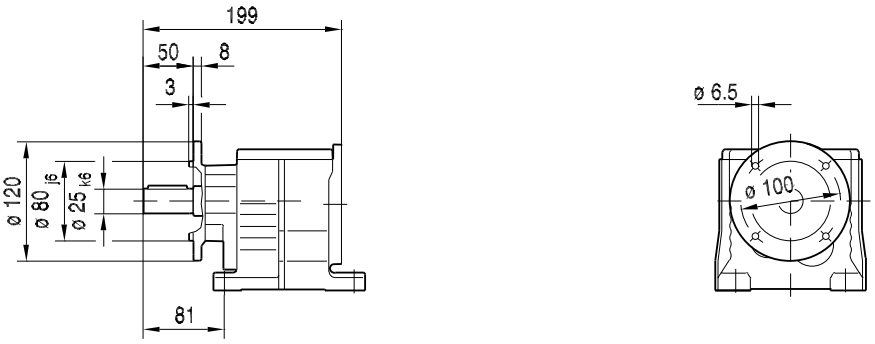
01 134 00 09

R27..



10

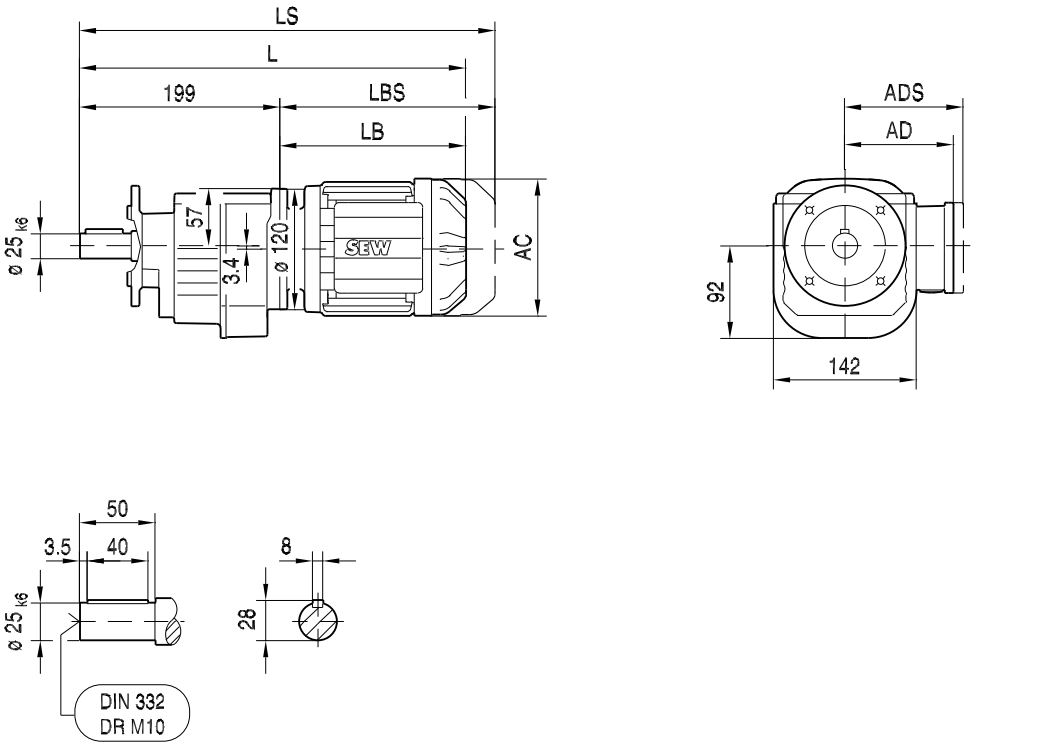
R27F..



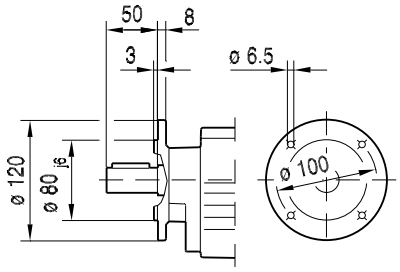
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	384	396	421	430	461	465	485	515	545
LS	439	463	488	511	542	558	578	608	638
LB	191	203	228	237	268	272	292	322	352
LBS	246	270	295	318	349	365	385	415	445

01 135 00 09

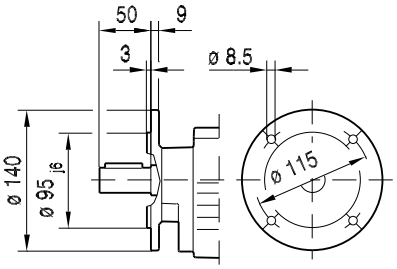
RF27..



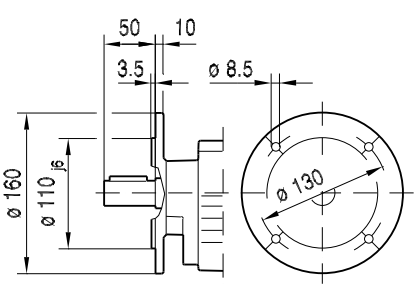
ø 120



ø 140



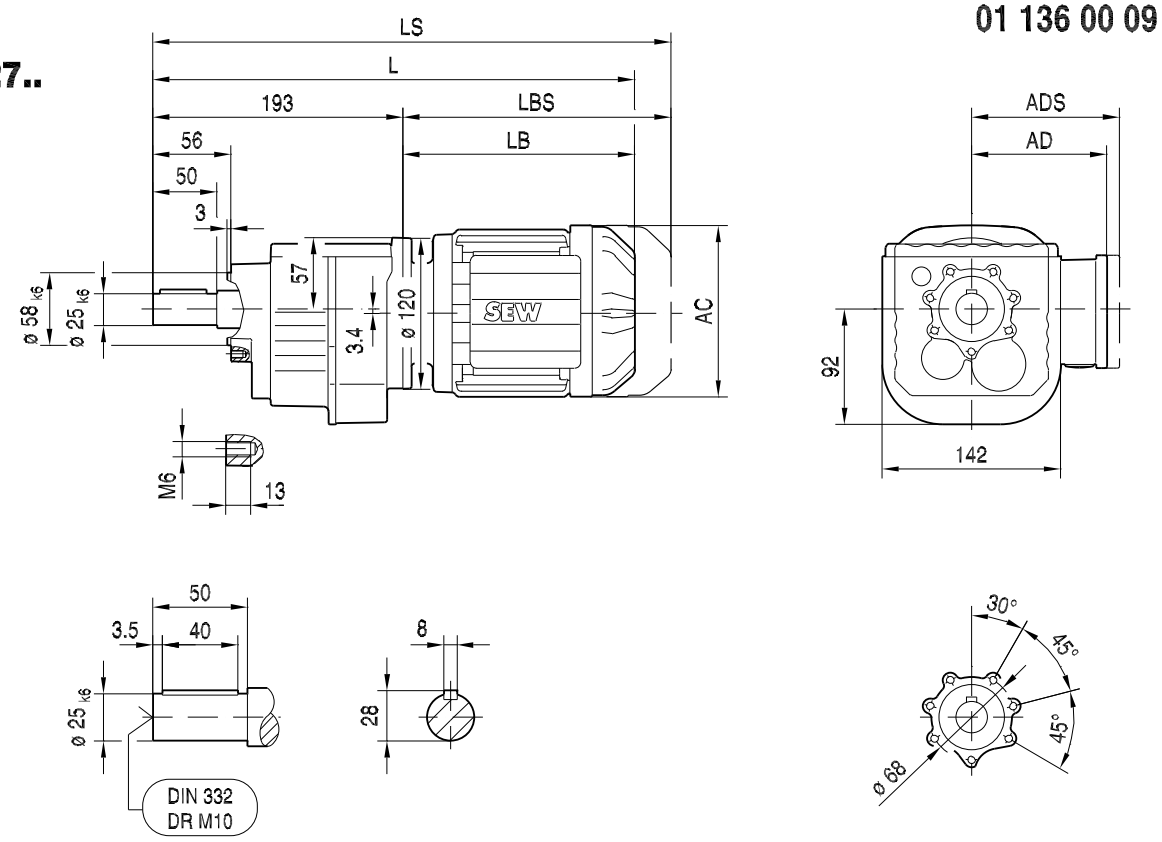
ø 160



(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	390	402	427	436	467	471	491	521	551
LS	445	469	494	517	548	564	584	614	644
LB	191	203	228	237	268	272	292	322	352
LBS	246	270	295	318	349	365	385	415	445

RZ27..

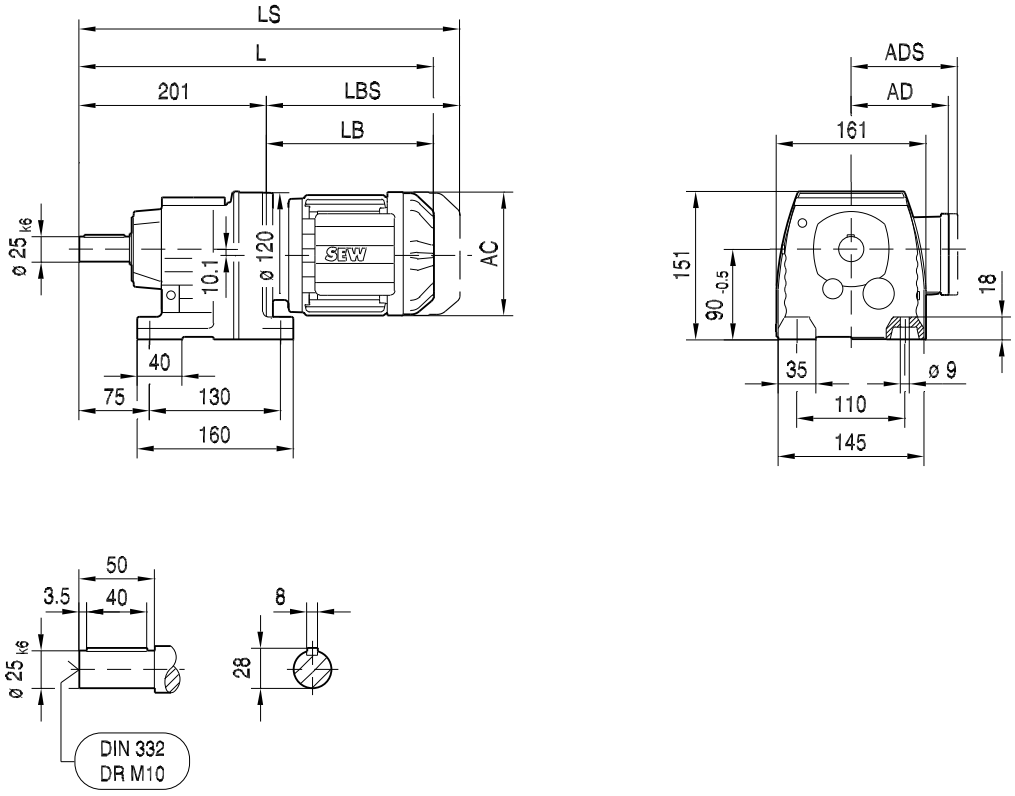
01 136 00 09



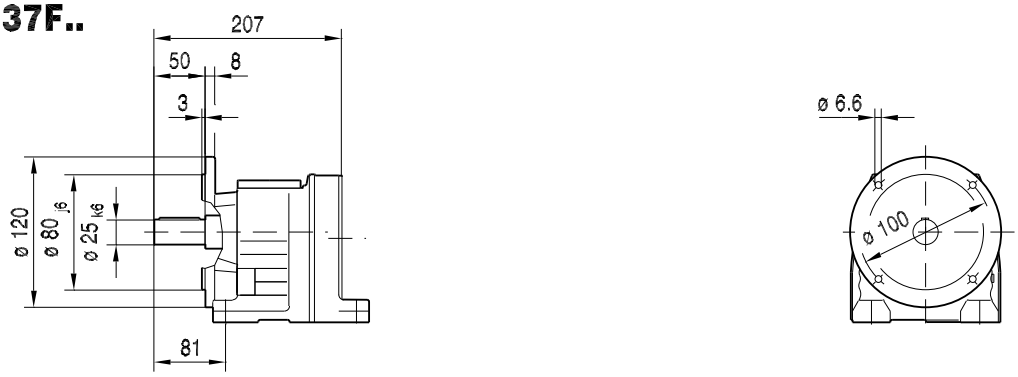
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	384	396	421	430	461	465	485	515	545
LS	439	463	488	511	542	558	578	608	638
LB	191	203	228	237	268	272	292	322	352
LBS	246	270	295	318	349	365	385	415	445

01 137 00 09

R37..



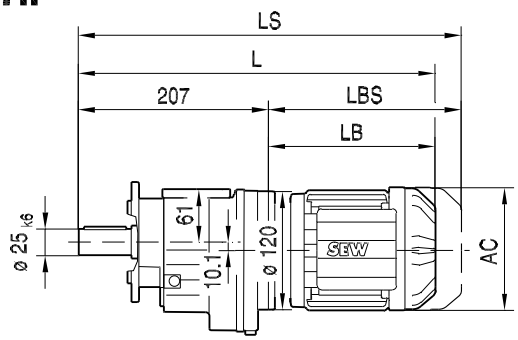
R37F..

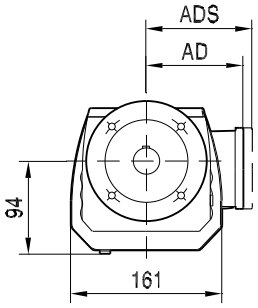


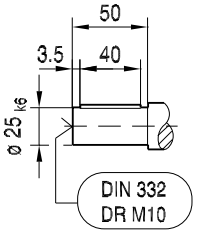
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	392	404	429	438	469	473	493	523	553
LS	447	471	496	519	550	566	586	616	646
LB	191	203	228	237	268	272	292	322	352
LBS	246	270	295	318	349	365	385	415	445

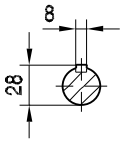
01 138 00 09

RF37..



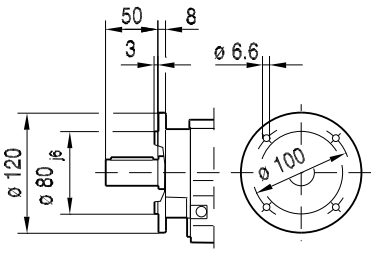




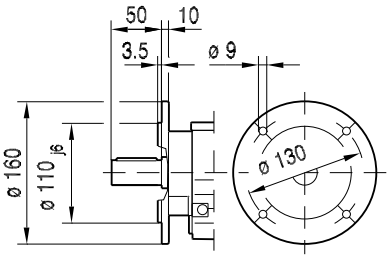


10

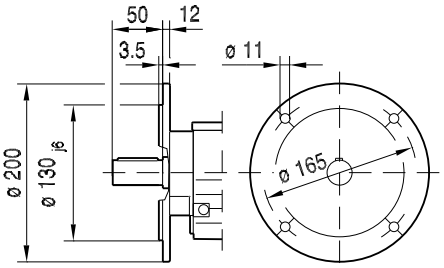
ø 120



ø 160



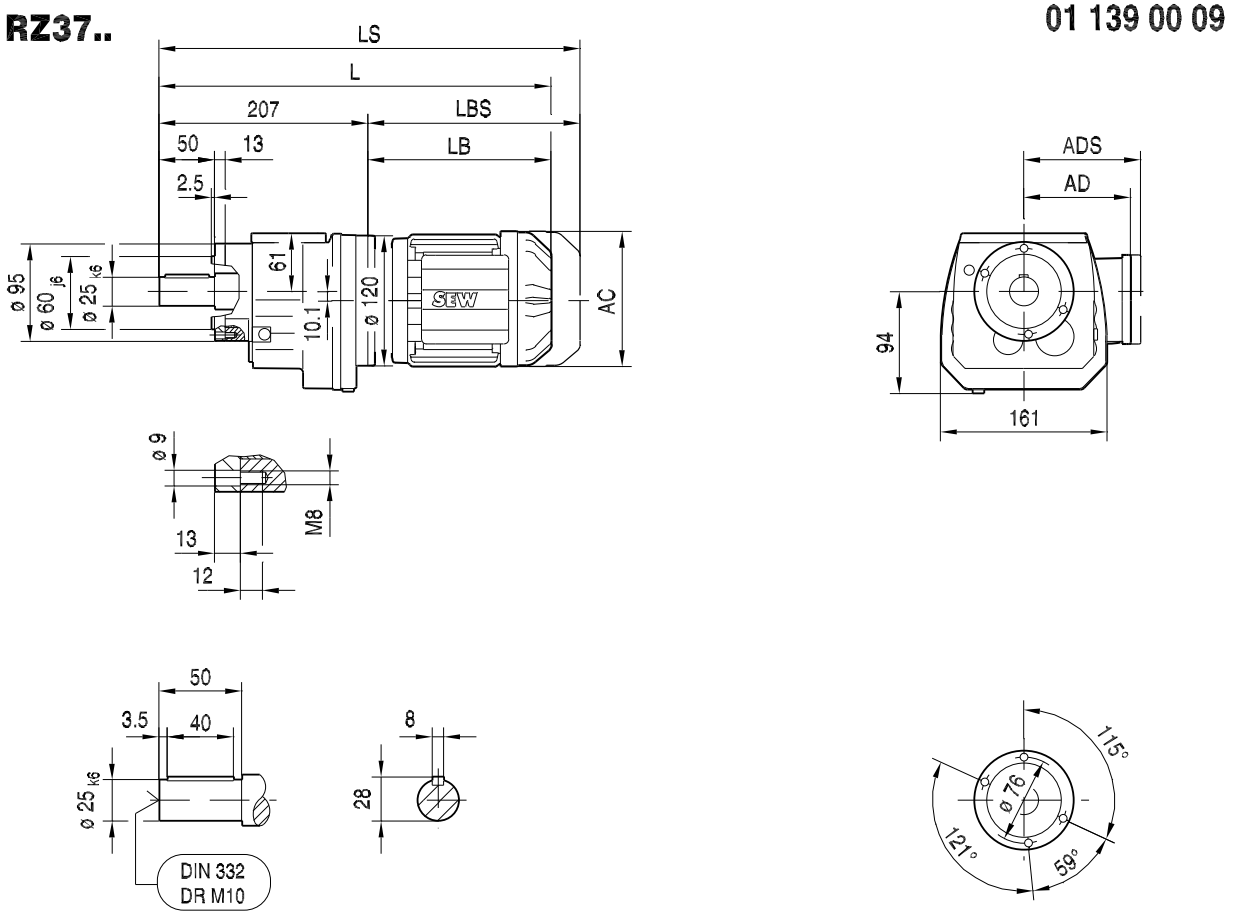
ø 200



(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	398	410	435	444	475	479	499	529	559
LS	453	477	502	525	556	572	592	622	652
LB	191	203	228	237	268	272	292	322	352
LBS	246	270	295	318	349	365	385	415	445

RZ37..

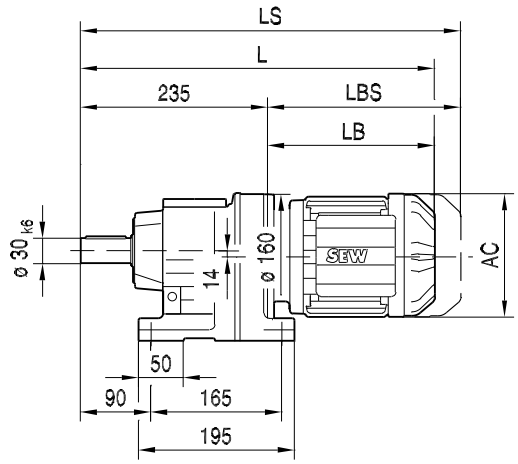
01 139 00 09

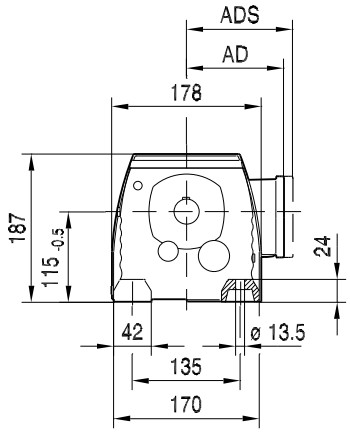


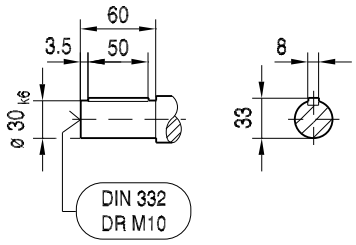
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	398	410	435	444	475	479	499	529	559
LS	453	477	502	525	556	572	592	622	652
LB	191	203	228	237	268	272	292	322	352
LBS	246	270	295	318	349	365	385	415	445

01 140 00 09

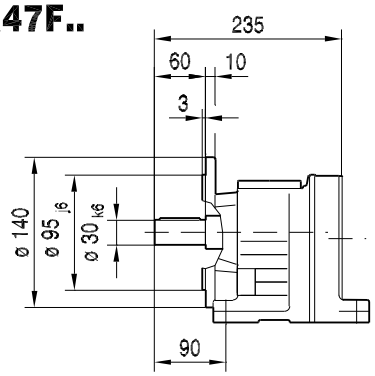
R47..

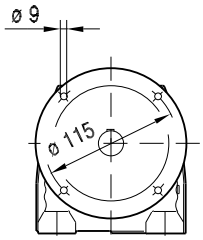






R47F..

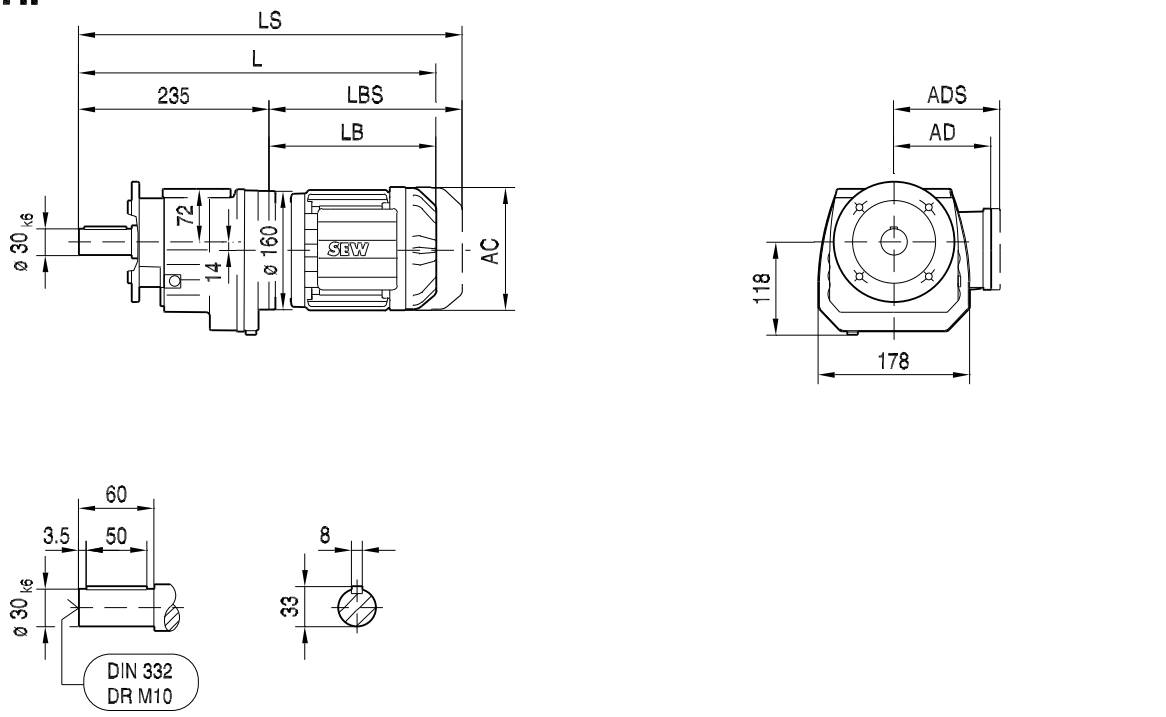




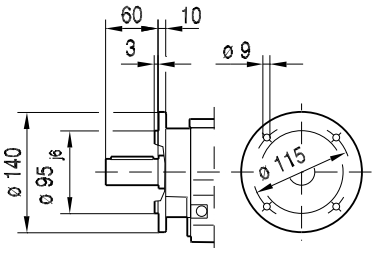
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S
AC	132	139	139	156	156	179	179	197	197	221
AD	105	129	129	139	139	150	150	158	158	172
ADS	105	129	129	139	139	150	150	158	158	172
L	420	431	456	465	496	498	518	548	578	625
LS	475	499	524	546	577	591	611	641	671	737
LB	185	196	221	230	261	263	283	313	343	390
LBS	240	264	289	311	342	356	376	406	436	502

01 141 00 09

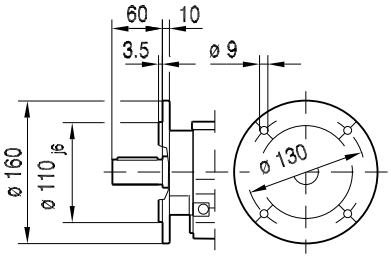
RF47..



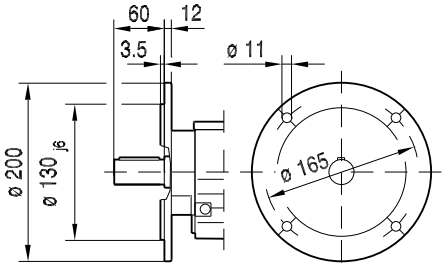
ø 140



ø 160



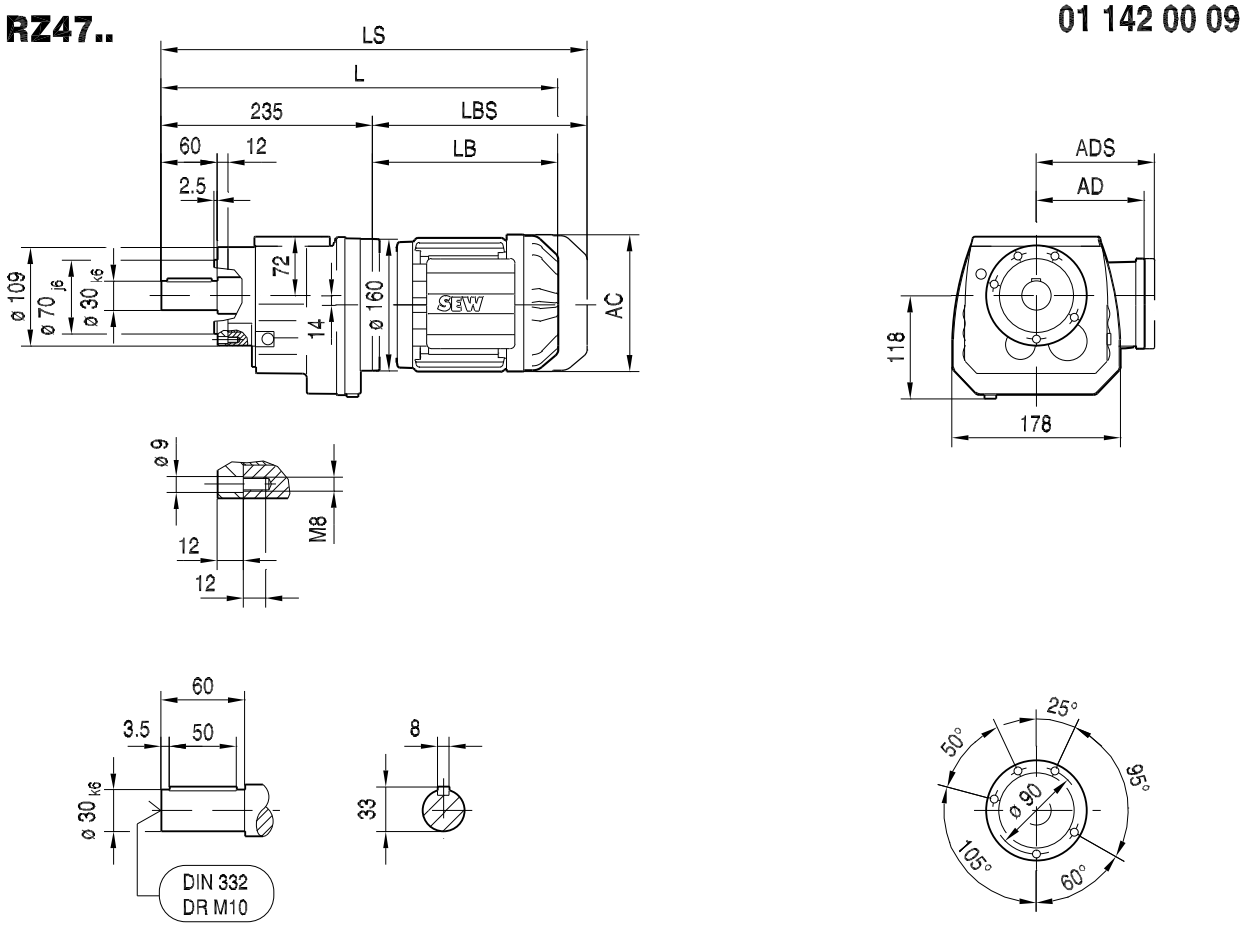
ø 200



(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S
AC	132	139	139	156	156	179	179	197	197	221
AD	105	129	129	139	139	150	150	158	158	172
ADS	105	129	129	139	139	150	150	158	158	172
L	420	431	456	465	496	498	518	548	578	625
LS	475	499	524	546	577	591	611	641	671	737
LB	185	196	221	230	261	263	283	313	343	390
LBS	240	264	289	311	342	356	376	406	436	502

RZ47..

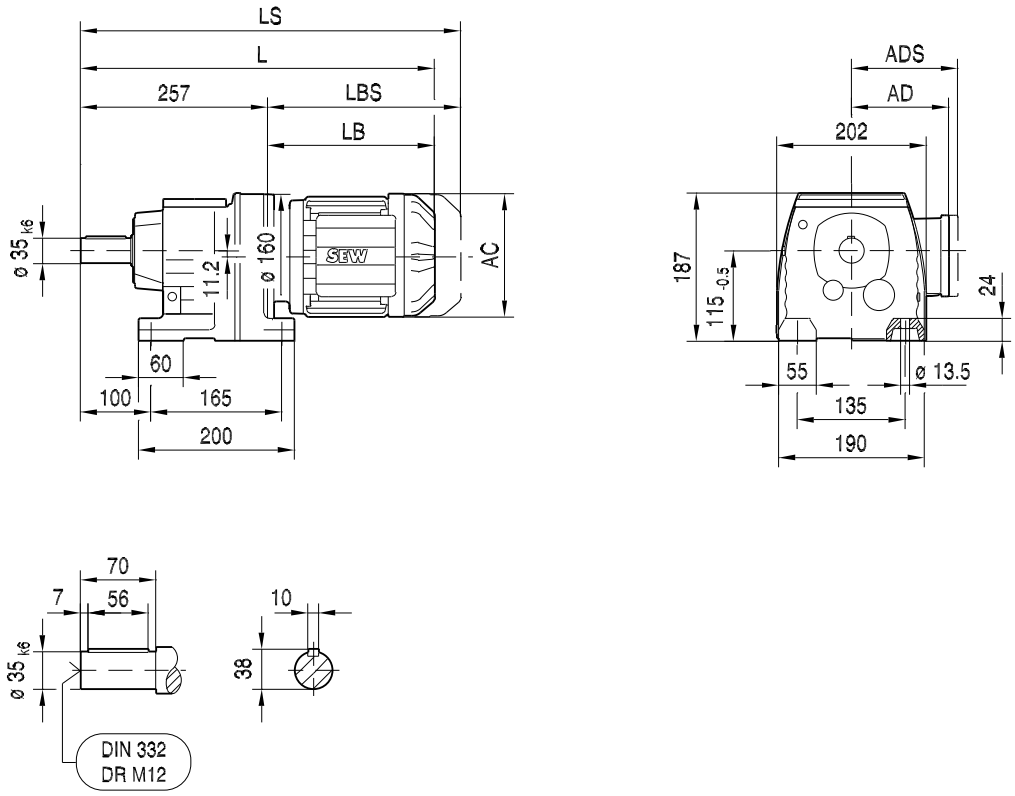
01 142 00 09



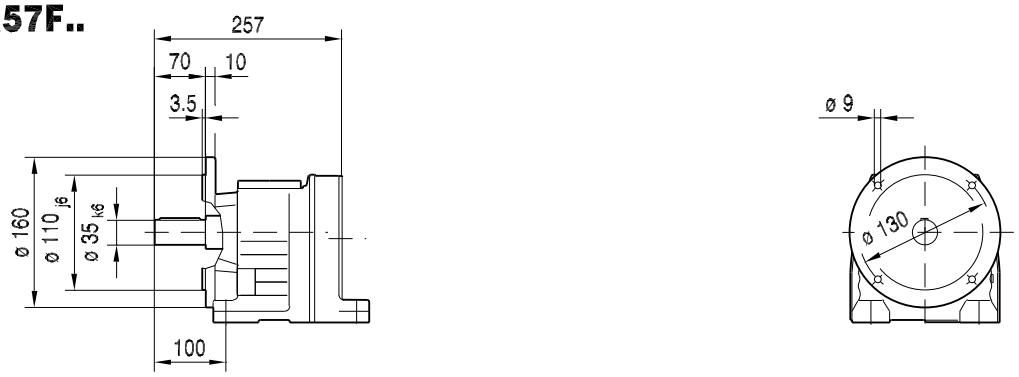
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S
AC	132	139	139	156	156	179	179	197	197	221
AD	105	129	129	139	139	150	150	158	158	172
ADS	105	129	129	139	139	150	150	158	158	172
L	420	431	456	465	496	498	518	548	578	625
LS	475	499	524	546	577	591	611	641	671	737
LB	185	196	221	230	261	263	283	313	343	390
LBS	240	264	289	311	342	356	376	406	436	502

01 143 00 09

R57..



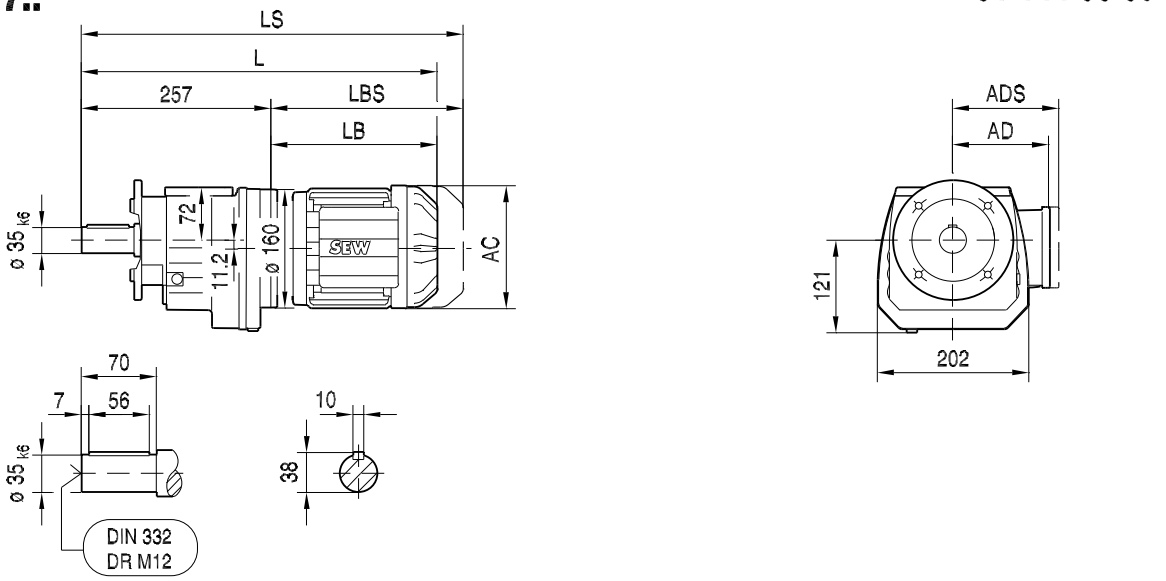
R57F..

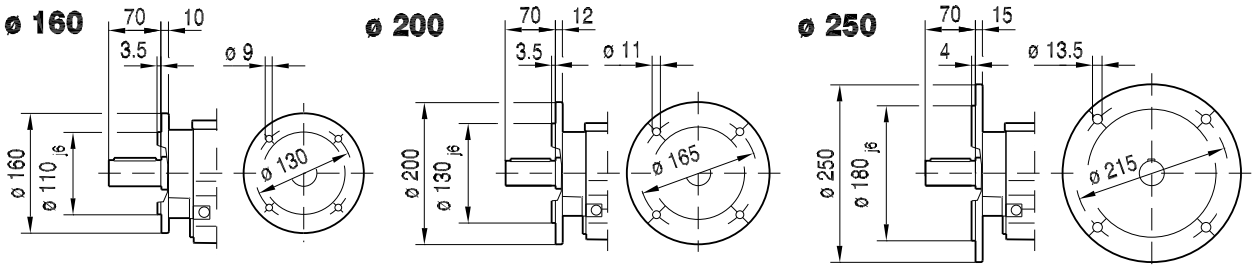


(→ 127)	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..
AC	139	156	156	179	179	197	197	221	221	270
AD	129	139	139	150	150	158	158	172	172	228
ADS	129	139	139	150	150	158	158	172	172	228
L	478	487	518	520	540	570	600	647	697	738
LS	546	568	599	613	633	663	693	759	809	875
LB	221	230	261	263	283	313	343	390	440	481
LBS	289	311	342	356	376	406	436	502	552	618

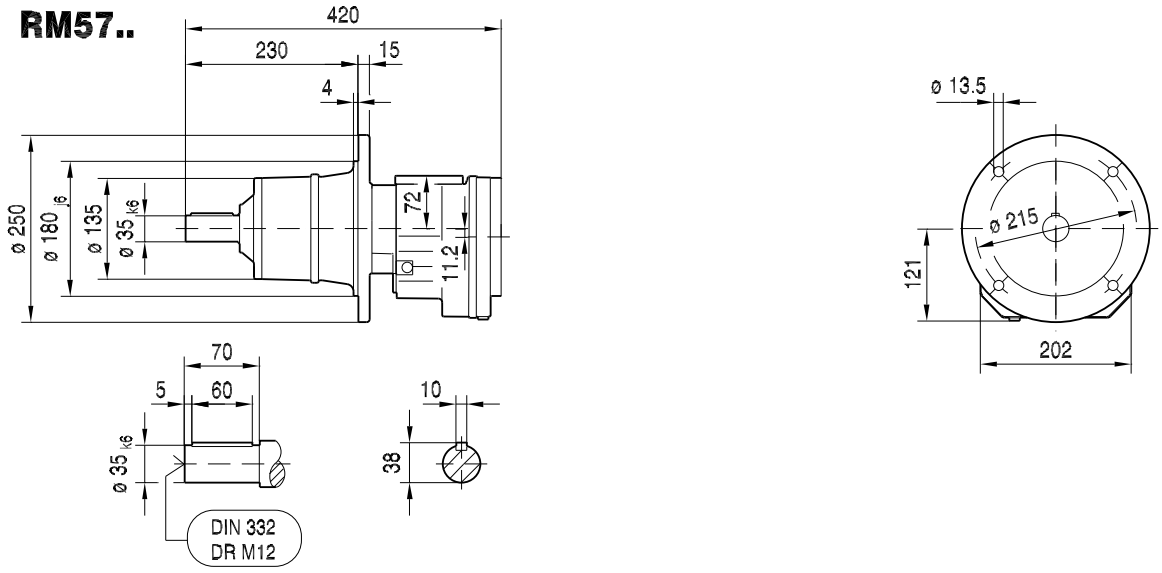
RF57..

01 144 00 09





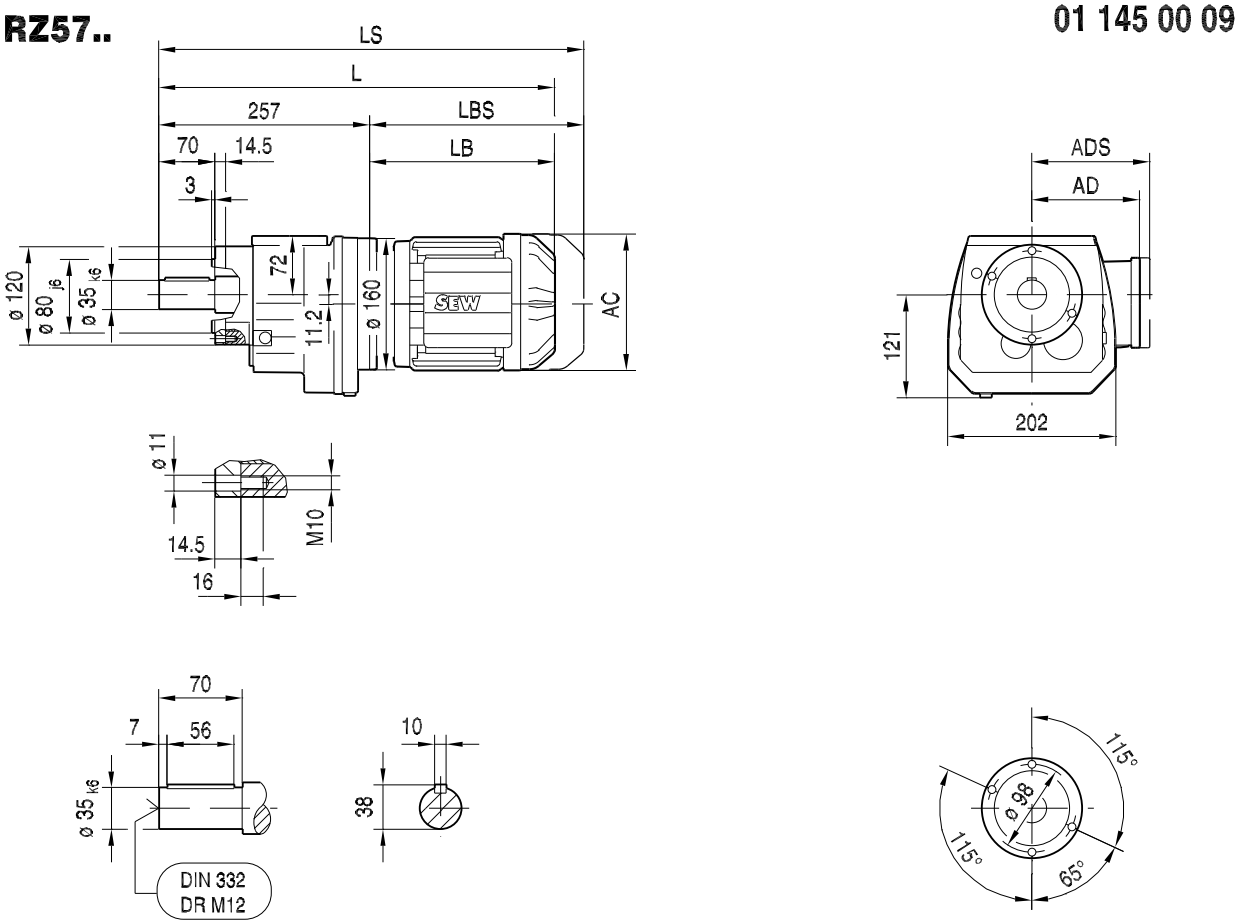
RM57..



(→ 127)	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..
AC	139	156	156	179	179	197	197	221	221	270
AD	129	139	139	150	150	158	158	172	172	228
ADS	129	139	139	150	150	158	158	172	172	228
L	478	487	518	520	540	570	600	647	697	738
LS	546	568	599	613	633	663	693	759	809	875
LB	221	230	261	263	283	313	343	390	440	481
LBS	289	311	342	356	376	406	436	502	552	618

RZ57..

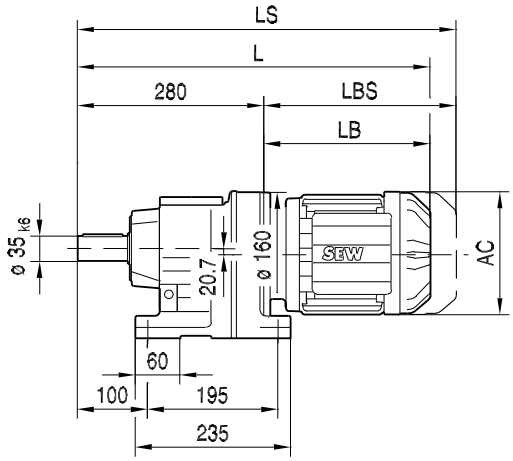
01 145 00 09

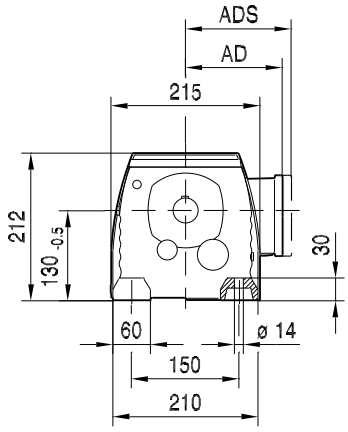


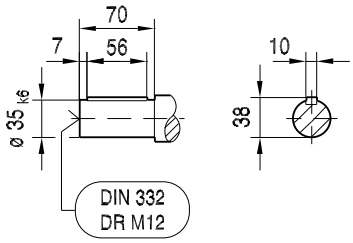
(→ 127)	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..
AC	139	156	156	179	179	197	197	221	221	270
AD	129	139	139	150	150	158	158	172	172	228
ADS	129	139	139	150	150	158	158	172	172	228
L	478	487	518	520	540	570	600	647	697	738
LS	546	568	599	613	633	663	693	759	809	875
LB	221	230	261	263	283	313	343	390	440	481
LBS	289	311	342	356	376	406	436	502	552	618

01 146 00 09

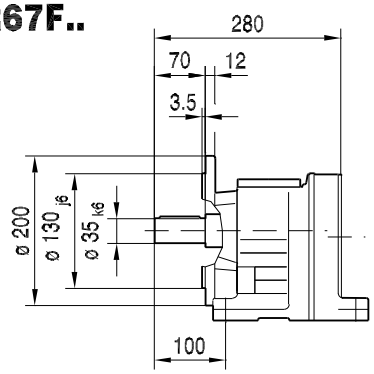
R67..

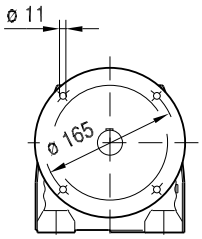






R67F..

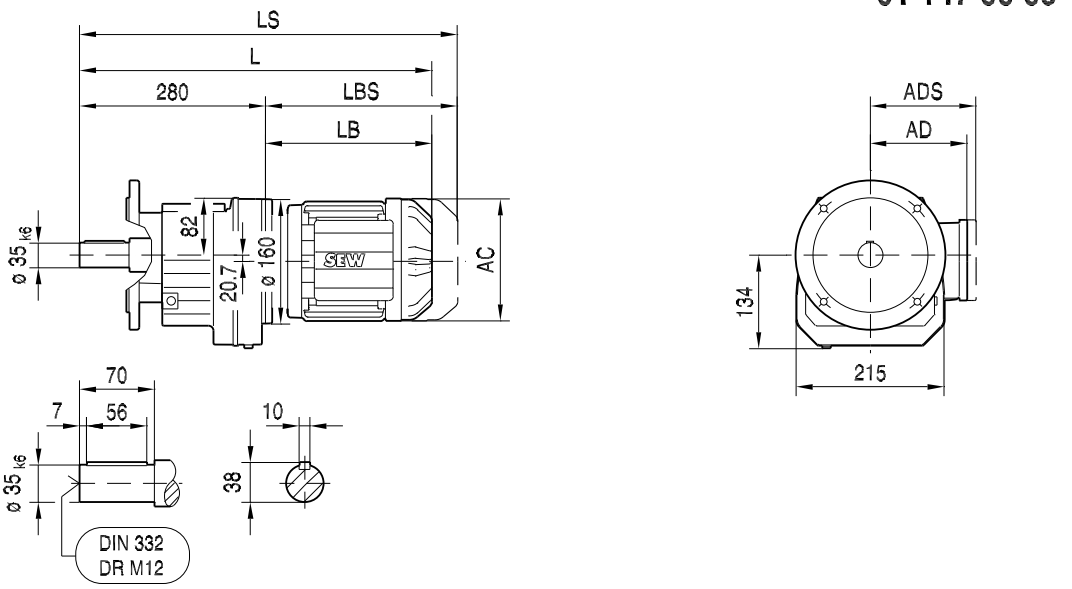




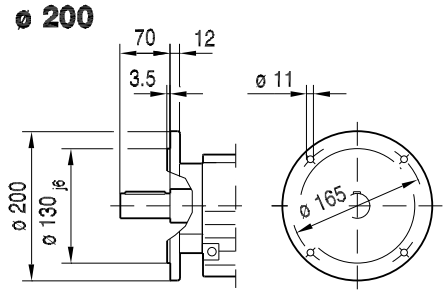
(→ 127)	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..
AC	139	156	156	179	179	197	197	221	221	270
AD	129	139	139	150	150	158	158	172	172	228
ADS	129	139	139	150	150	158	158	172	172	228
L	501	510	541	543	563	593	623	670	720	761
LS	569	591	622	636	656	686	716	782	832	898
LB	221	230	261	263	283	313	343	390	440	481
LBS	289	311	342	356	376	406	436	502	552	618

01 147 00 09

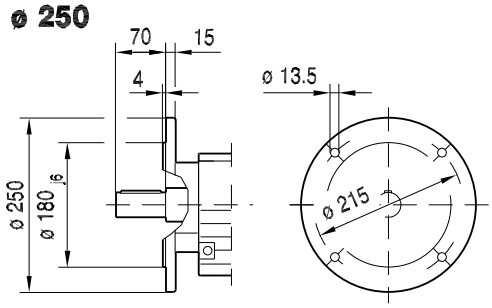
RF67..



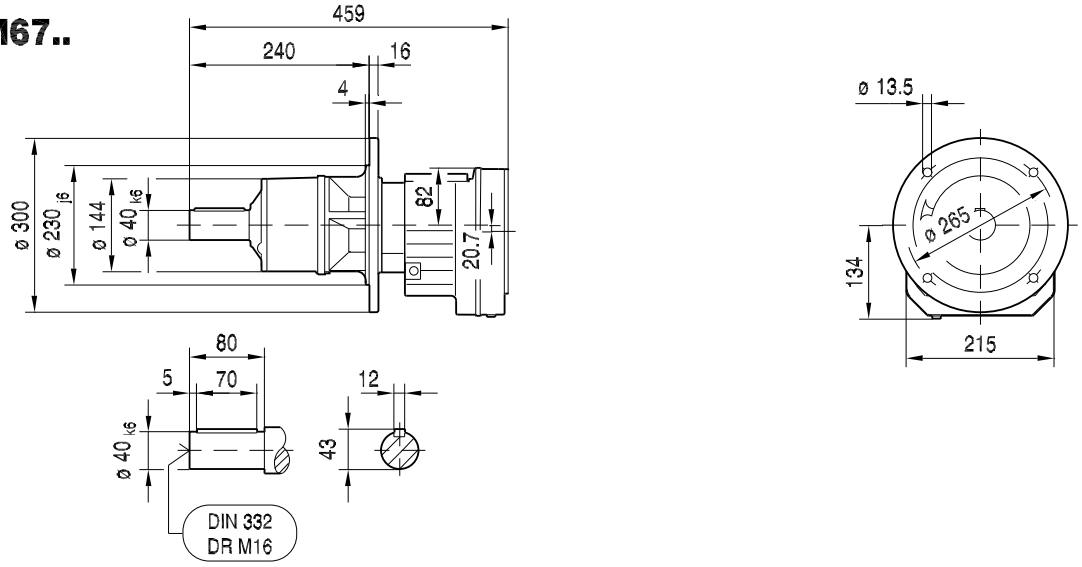
ø 200



ø 250



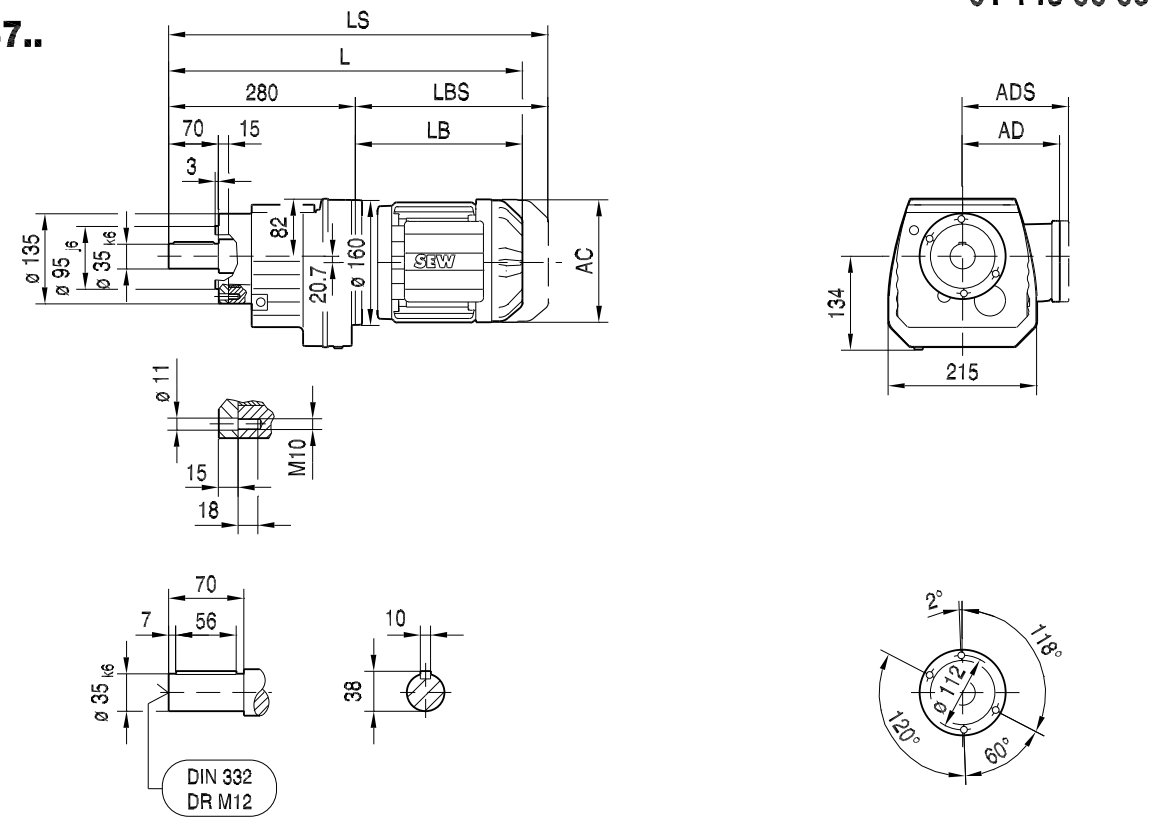
RM67..



(→ 127)	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..
AC	139	156	156	179	179	197	197	221	221	270
AD	129	139	139	150	150	158	158	172	172	228
ADS	129	139	139	150	150	158	158	172	172	228
L	501	510	541	543	563	593	623	670	720	761
LS	569	591	622	636	656	686	716	782	832	898
LB	221	230	261	263	283	313	343	390	440	481
LBS	289	311	342	356	376	406	436	502	552	618

01 148 00 09

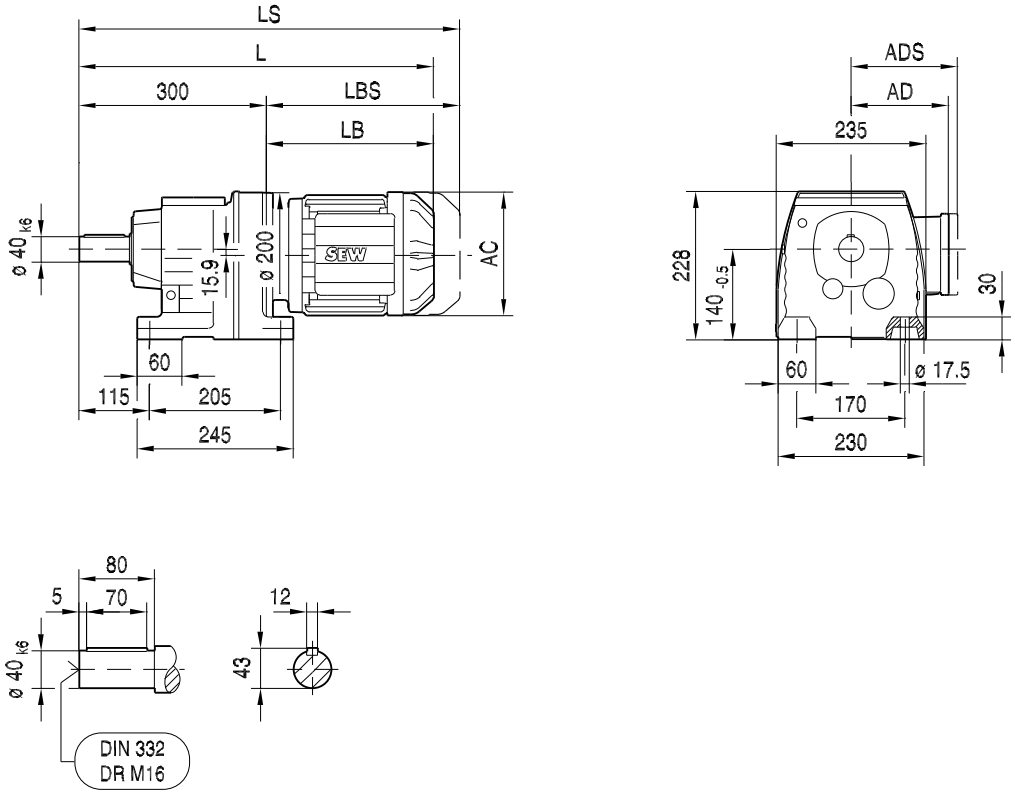
RZ67..



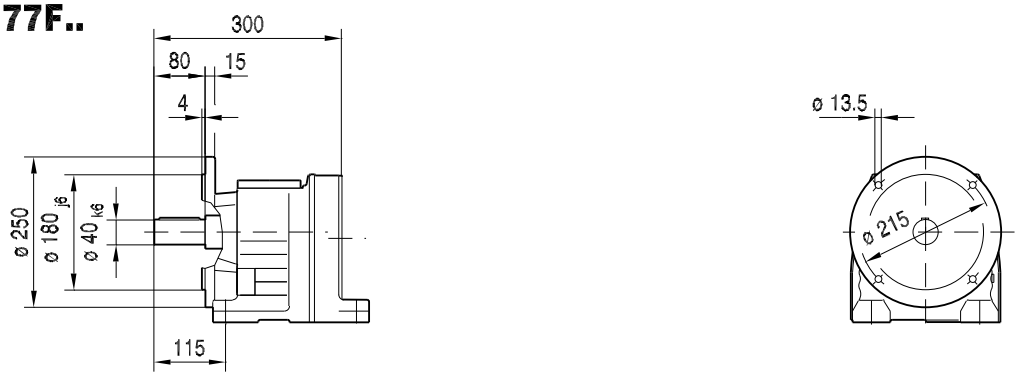
(→ 127)	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..
AC	139	156	156	179	179	197	197	221	221	270
AD	129	139	139	150	150	158	158	172	172	228
ADS	129	139	139	150	150	158	158	172	172	228
L	501	510	541	543	563	593	623	670	720	761
LS	569	591	622	636	656	686	716	782	832	898
LB	221	230	261	263	283	313	343	390	440	481
LBS	289	311	342	356	376	406	436	502	552	618

01 149 00 09

R77..



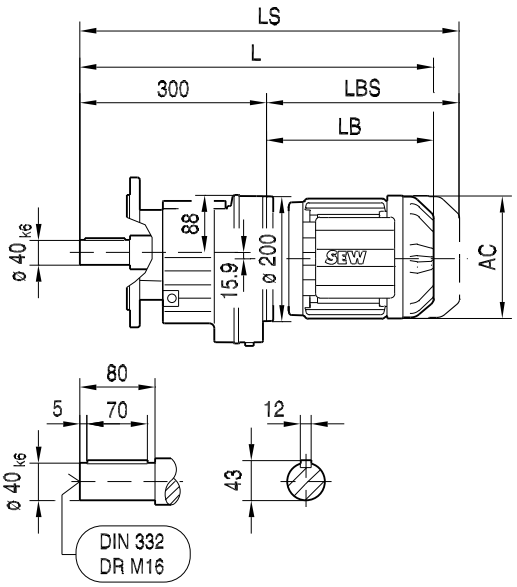
R77F..

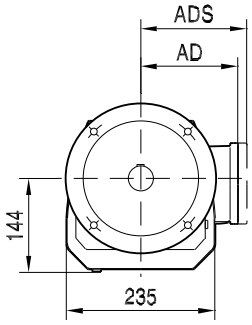


(→ 127)	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..
AC	139	156	156	179	179	197	197	221	221	270
AD	129	139	139	150	150	158	158	172	172	228
ADS	129	139	139	150	150	158	158	172	172	228
L	514	523	554	556	576	606	636	679	729	770
LS	582	604	635	649	669	699	729	791	841	907
LB	214	223	254	256	276	306	336	379	429	470
LBS	282	304	335	349	369	399	429	491	541	607

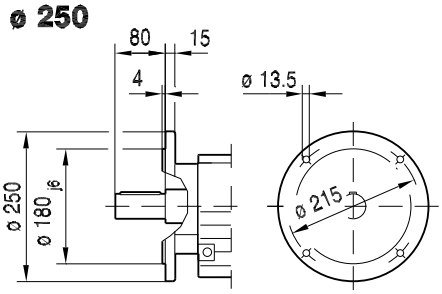
01 150 00 09

RF77..

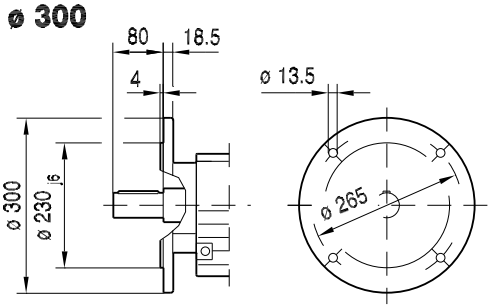




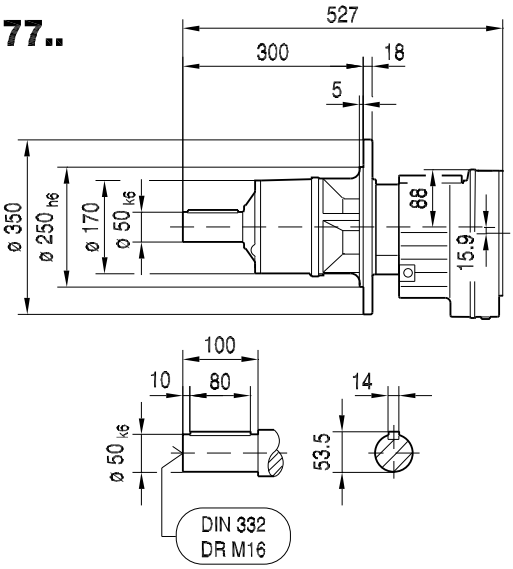
ø 250

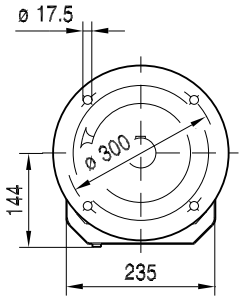


ø 300



RM77..

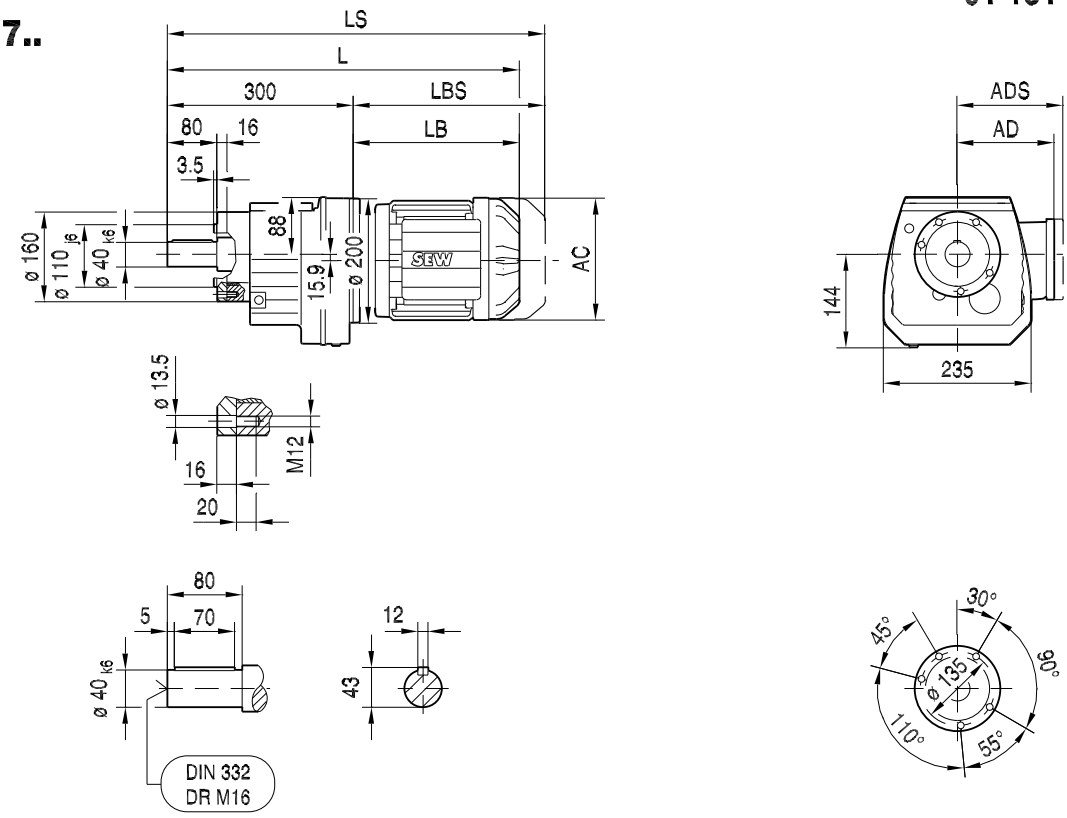




(→ 127)	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..
AC	139	156	156	179	179	197	197	221	221	270
AD	129	139	139	150	150	158	158	172	172	228
ADS	129	139	139	150	150	158	158	172	172	228
L	514	523	554	556	576	606	636	679	729	770
LS	582	604	635	649	669	699	729	791	841	907
LB	214	223	254	256	276	306	336	379	429	470
LBS	282	304	335	349	369	399	429	491	541	607

01 151 00 09

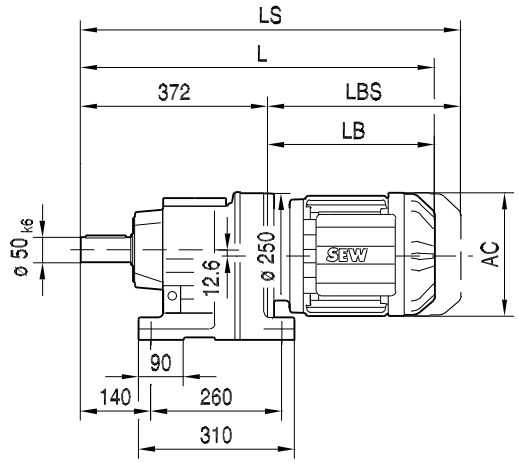
RZ77..

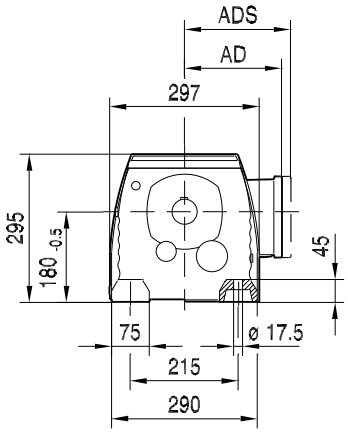


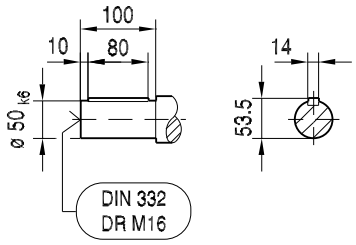
(→ 127)	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..
AC	139	156	156	179	179	197	197	221	221	270
AD	129	139	139	150	150	158	158	172	172	228
ADS	129	139	139	150	150	158	158	172	172	228
L	514	523	554	556	576	606	636	679	729	770
LS	582	604	635	649	669	699	729	791	841	907
LB	214	223	254	256	276	306	336	379	429	470
LBS	282	304	335	349	369	399	429	491	541	607

01 152 00 09

R87..

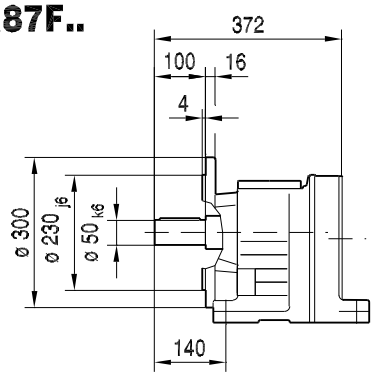


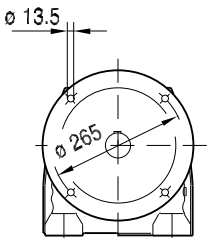




10

R87F..

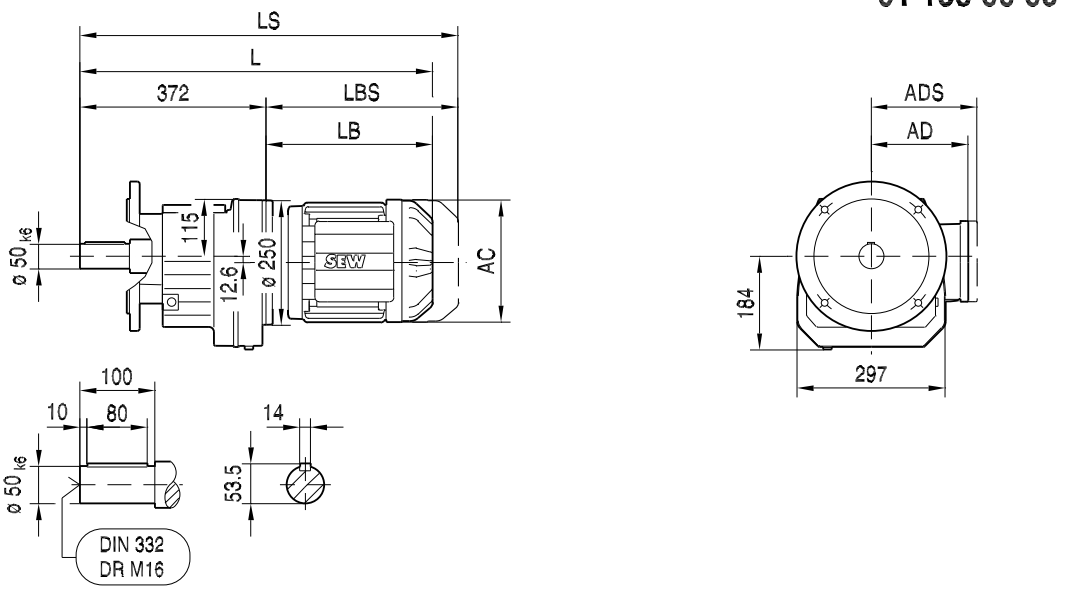




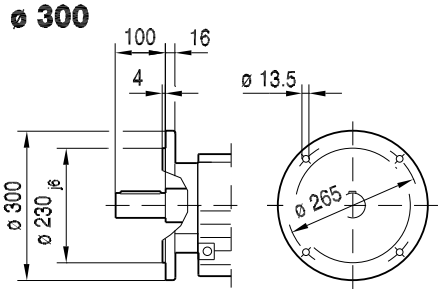
(→ 127)	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC
AC	156	179	179	197	197	221	221	270	316	316
AD	139	150	150	158	158	172	172	228	253	253
ADS	139	150	150	158	158	172	172	228	253	253
L	621	623	643	673	703	746	796	837	906	966
LS	702	716	736	766	796	858	908	974	1095	1155
LB	249	251	271	301	331	374	424	465	534	594
LBS	330	344	364	394	424	486	536	602	723	783

01 153 00 09

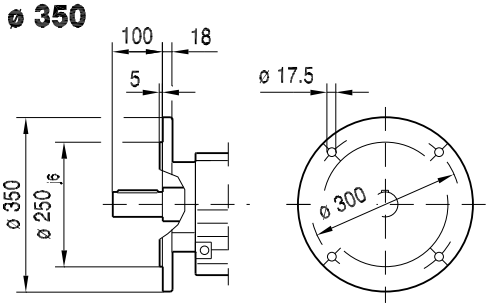
RF87..



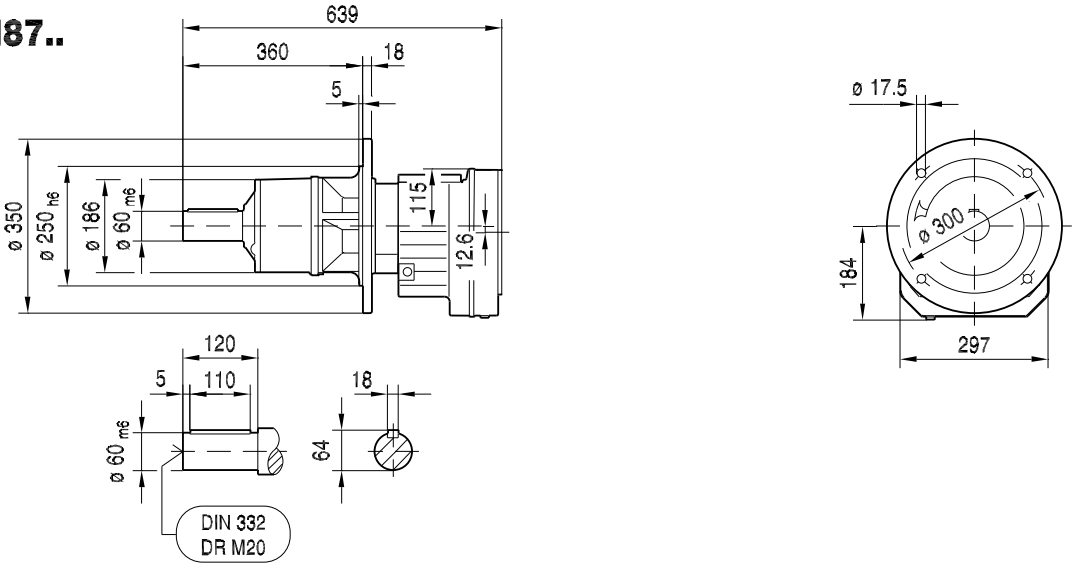
ø 300



ø 350



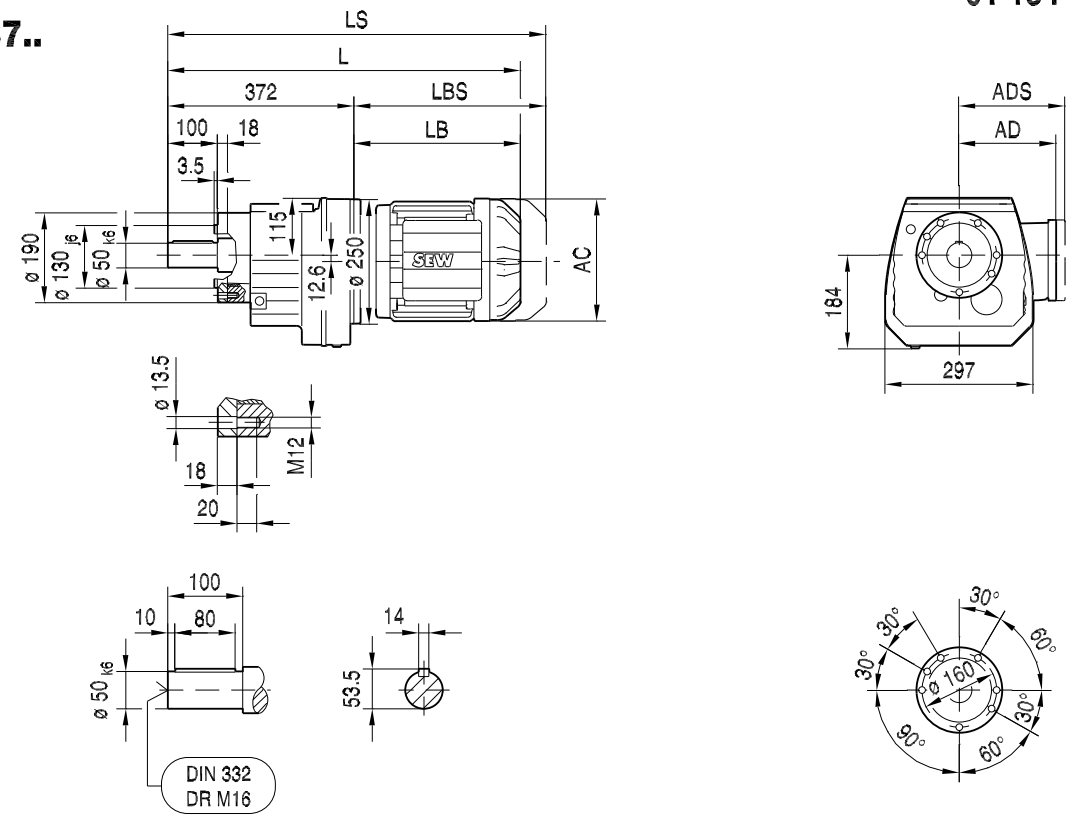
RM87..



(→ 127)	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC
AC	156	179	179	197	197	221	221	270	316	316
AD	139	150	150	158	158	172	172	228	253	253
ADS	139	150	150	158	158	172	172	228	253	253
L	621	623	643	673	703	746	796	837	906	966
LS	702	716	736	766	796	858	908	974	1095	1155
LB	249	251	271	301	331	374	424	465	534	594
LBS	330	344	364	394	424	486	536	602	723	783

01 154 00 09

RZ87..

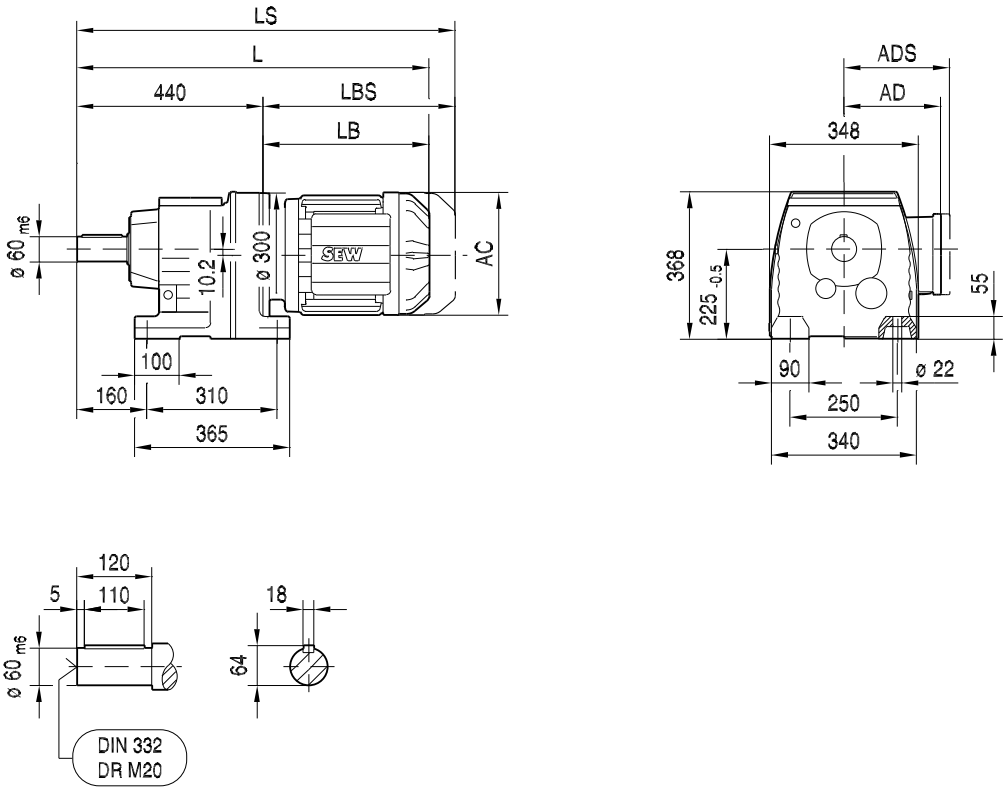


10

(→ 127)	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC
AC	156	179	179	197	197	221	221	270	316	316
AD	139	150	150	158	158	172	172	228	253	253
ADS	139	150	150	158	158	172	172	228	253	253
L	621	623	643	673	703	746	796	837	906	966
LS	702	716	736	766	796	858	908	974	1095	1155
LB	249	251	271	301	331	374	424	465	534	594
LBS	330	344	364	394	424	486	536	602	723	783

01 155 00 09

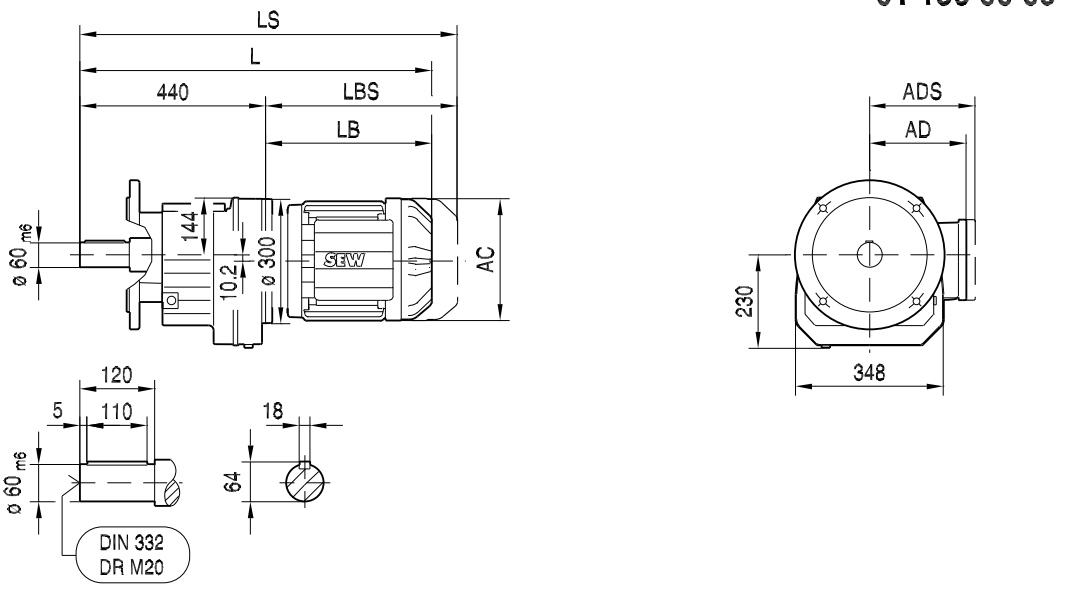
R97..



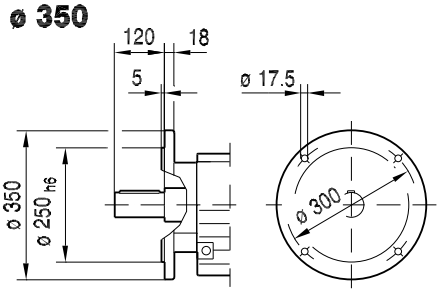
(→ 127)	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S
AC	179	197	197	221	221	270	316	316	394	394
AD	150	158	158	172	172	228	253	253	283	283
ADS	150	158	158	172	172	228	253	253	283	283
L	706	736	766	809	859	900	969	1029	1102	1102
LS	799	829	859	921	971	1037	1158	1218	1307	1307
LB	266	296	326	369	419	460	529	589	662	662
LBS	359	389	419	481	531	597	718	778	867	867

01 156 00 09

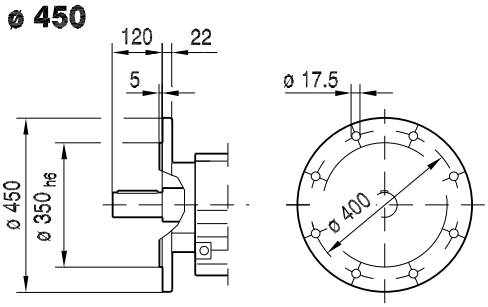
RF97..



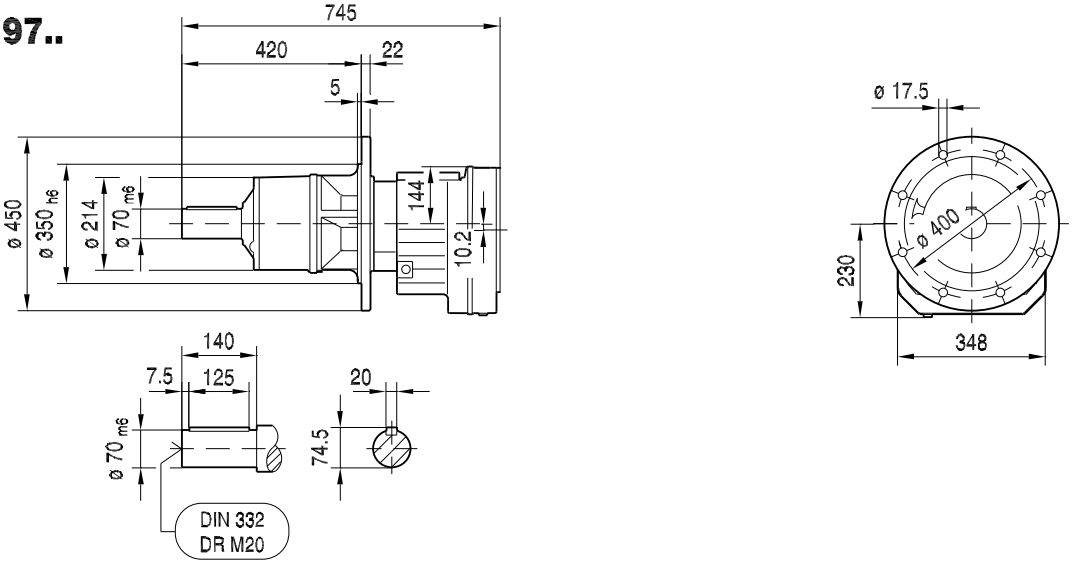
ø 350



ø 450



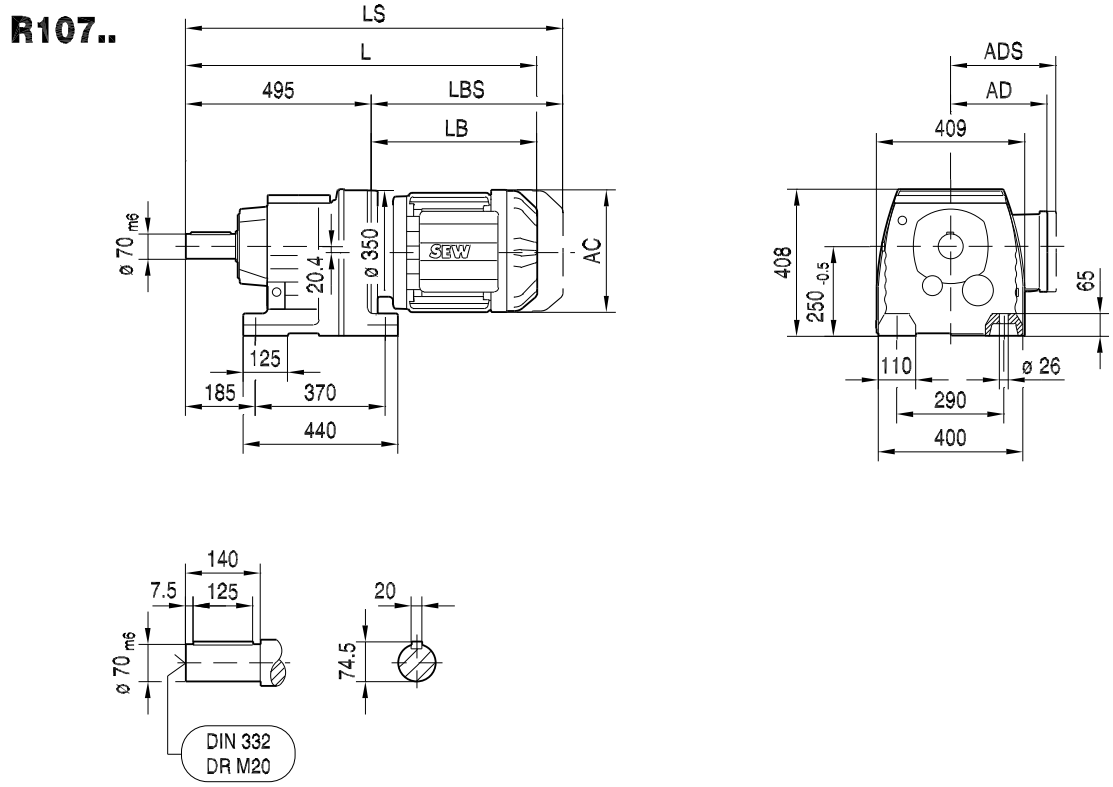
RM97..



(→ 127)	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S
AC	179	197	197	221	221	270	316	316	394	394
AD	150	158	158	172	172	228	253	253	283	283
ADS	150	158	158	172	172	228	253	253	283	283
L	706	736	766	809	859	900	969	1029	1102	1102
LS	799	829	859	921	971	1037	1158	1218	1307	1307
LB	266	296	326	369	419	460	529	589	662	662
LBS	359	389	419	481	531	597	718	778	867	867

01 157 00 09

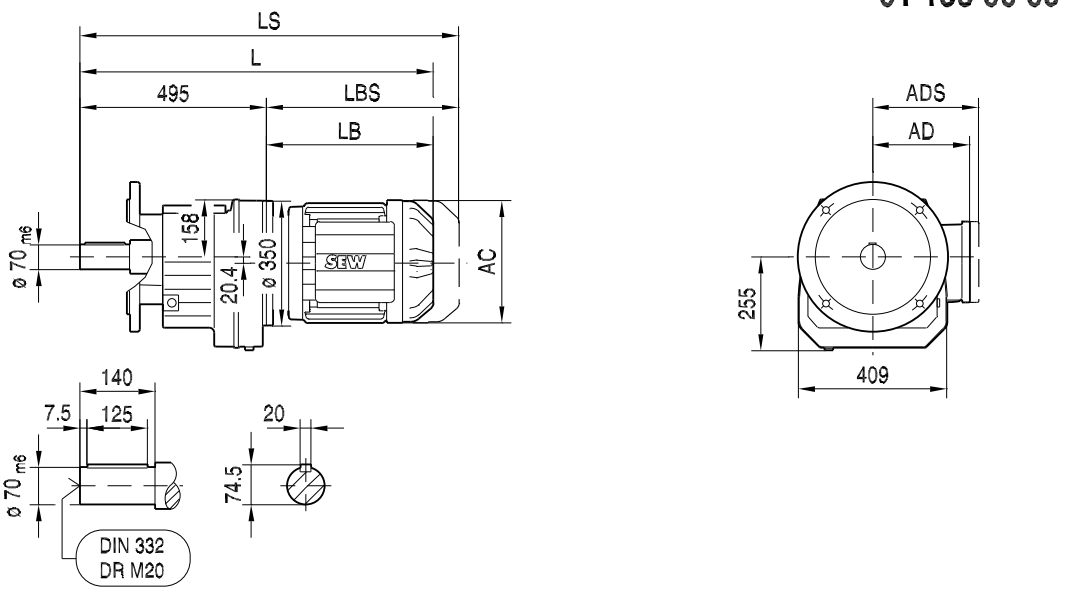
R107..



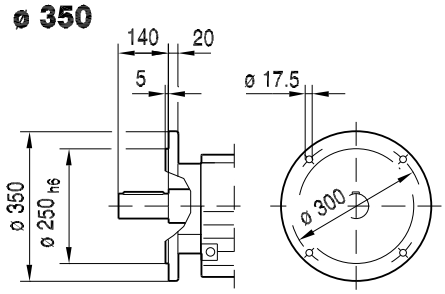
(→ 127)	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC
AC	197	221	221	270	316	316	394	394	394
AD	158	172	172	228	253	253	283	283	283
ADS	158	172	172	228	253	253	283	283	283
L	815	858	908	949	1018	1078	1151	1151	1201
LS	908	970	1020	1086	1207	1267	1356	1356	1406
LB	320	363	413	454	523	583	656	656	706
LBS	413	475	525	591	712	772	861	861	911

01 158 00 09

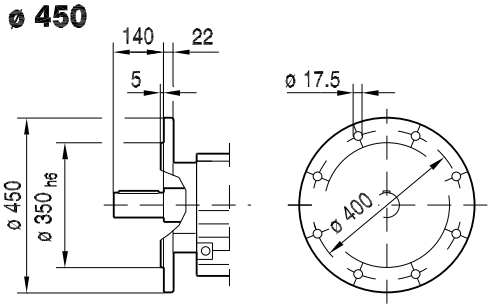
RF107..



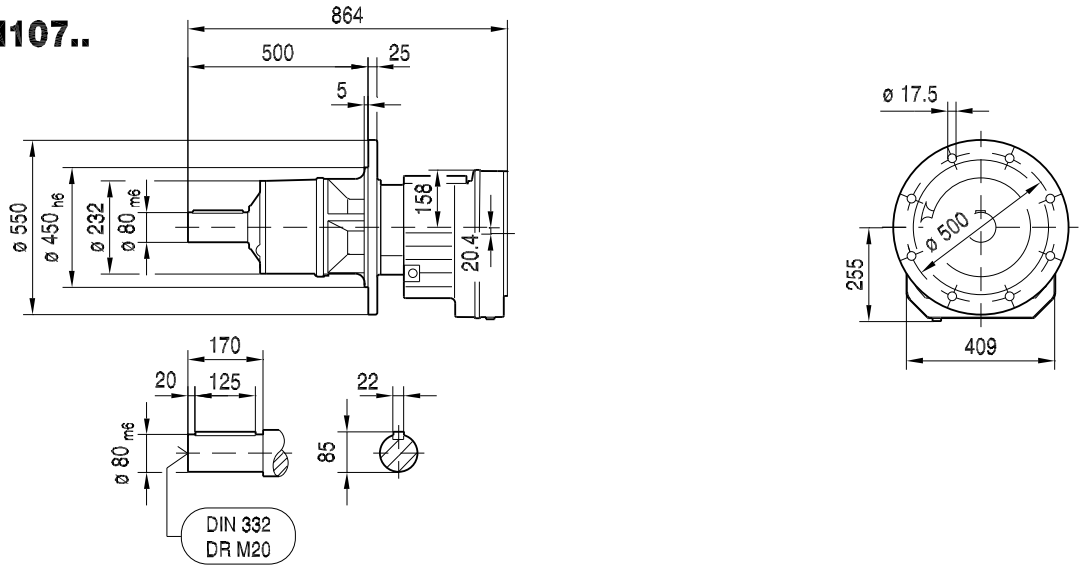
ø 350



ø 450



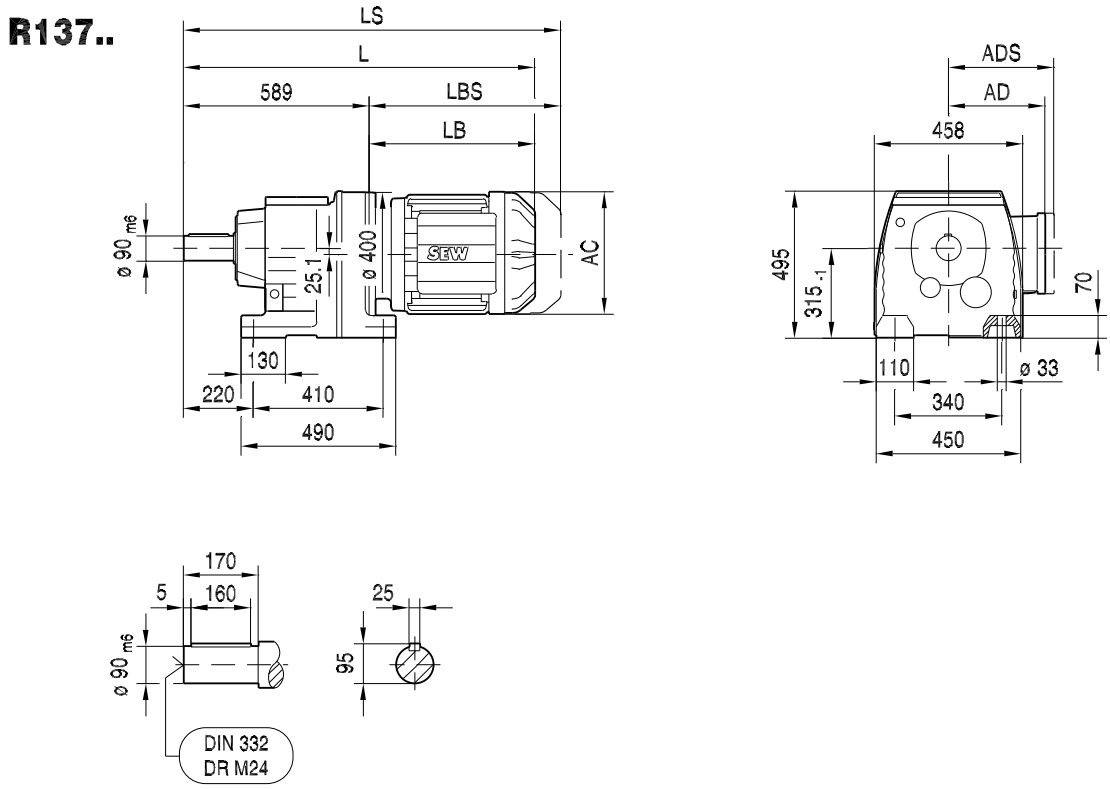
RM107..



(→ 127)	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC
AC	197	221	221	270	316	316	394	394	394
AD	158	172	172	228	253	253	283	283	283
ADS	158	172	172	228	253	253	283	283	283
L	815	858	908	949	1018	1078	1151	1151	1201
LS	908	970	1020	1086	1207	1267	1356	1356	1406
LB	320	363	413	454	523	583	656	656	706
LBS	413	475	525	591	712	772	861	861	911

01 159 00 09

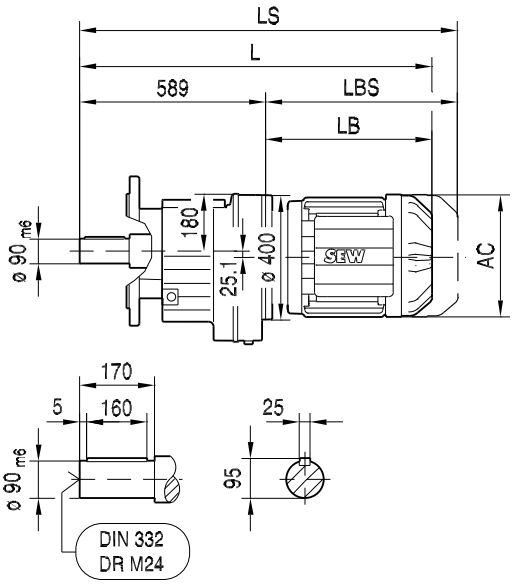
R137..

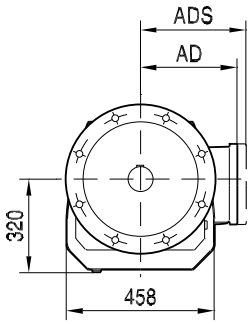


(→ 127)	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M
AC	221	270	316	316	394	394	394	510
AD	172	228	253	253	283	283	283	397
ADS	172	228	253	253	283	283	283	397
L	995	1036	1105	1165	1238	1238	1288	1378
LS	1107	1173	1294	1354	1443	1443	1493	1563
LB	406	447	516	576	649	649	699	789
LBS	518	584	705	765	854	854	904	974

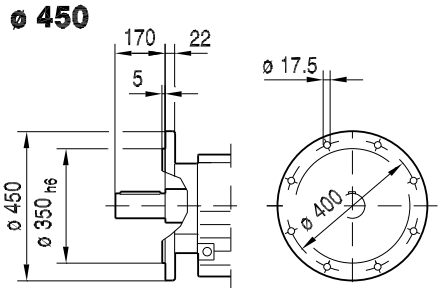
01 160 00 09

RF137..

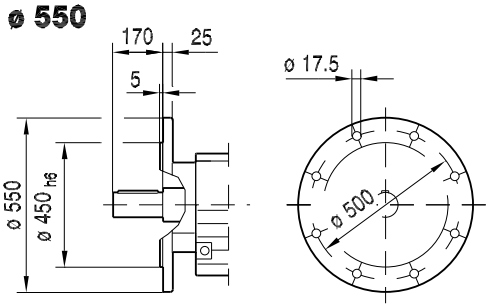




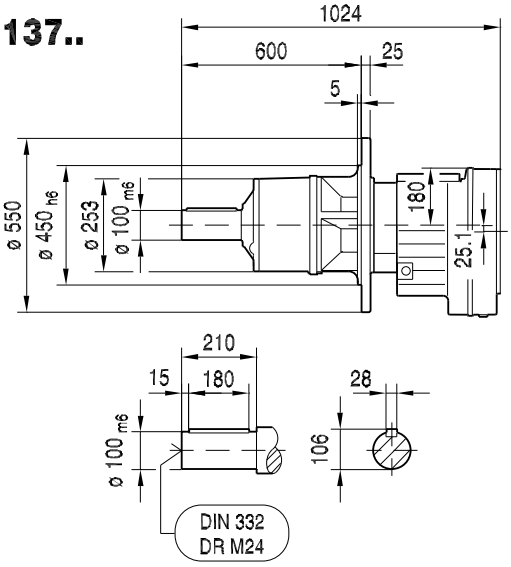
ø 450

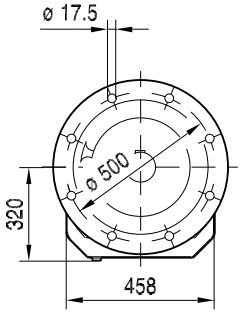


ø 550



RM137..

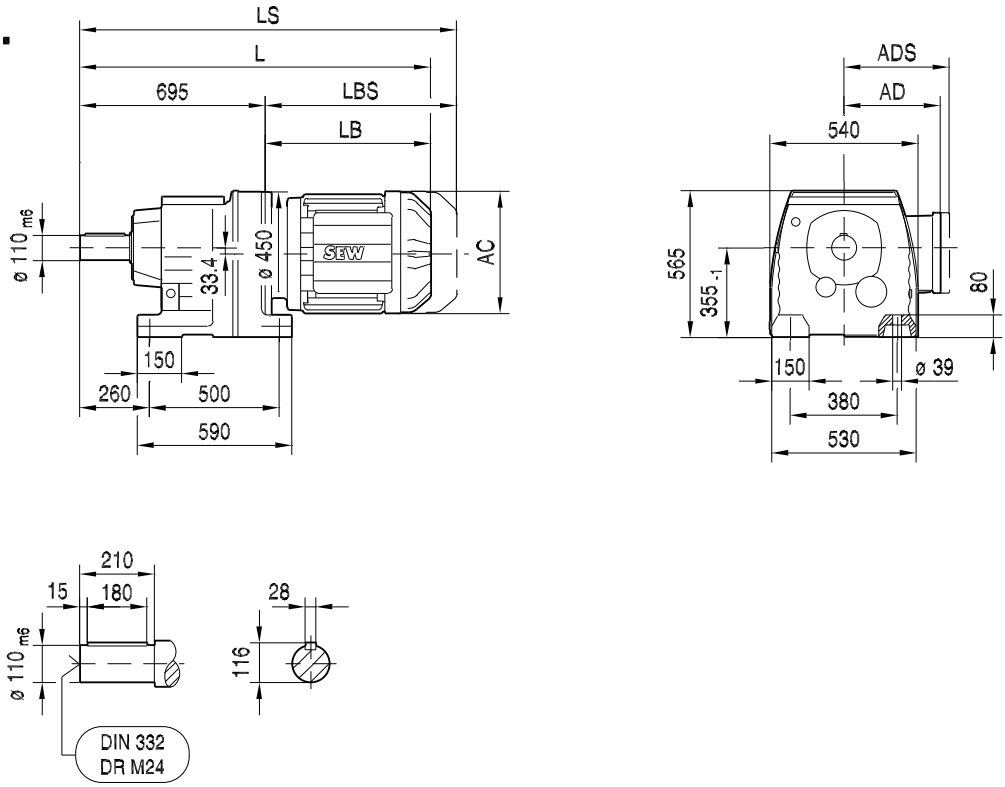




(→ 127)	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M
AC	221	270	316	316	394	394	394	510
AD	172	228	253	253	283	283	283	397
ADS	172	228	253	253	283	283	283	397
L	995	1036	1105	1165	1238	1238	1288	1378
LS	1107	1173	1294	1354	1443	1443	1493	1563
LB	406	447	516	576	649	649	699	789
LBS	518	584	705	765	854	854	904	974

01 161 00 09

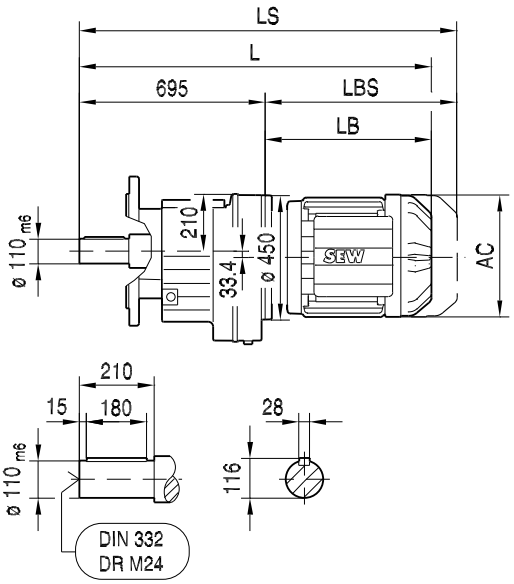
R147..

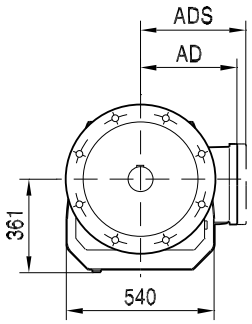


(→ 127)	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..
AC	270	316	316	394	394	394	510	510
AD	228	253	253	283	283	283	397	397
ADS	228	253	253	283	283	283	397	397
L	1134	1203	1263	1336	1336	1386	1475	1475
LS	1271	1392	1452	1541	1541	1591	1660	1660
LB	439	508	568	641	641	691	780	780
LBS	576	697	757	846	846	896	965	965

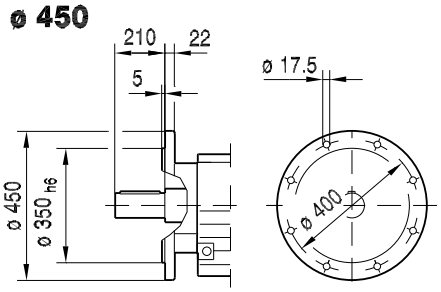
01 162 00 09

RF147..

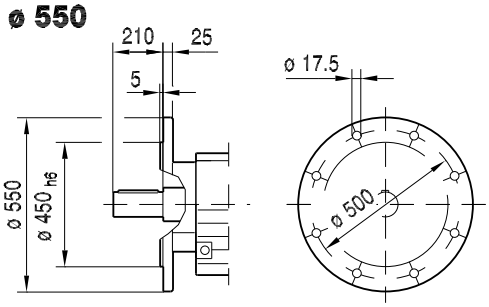




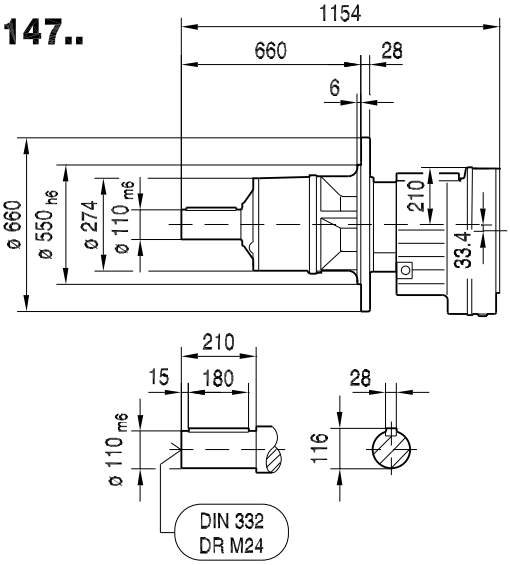
ø 450

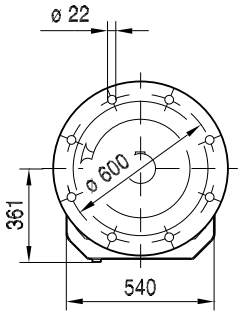


ø 550



RM147..

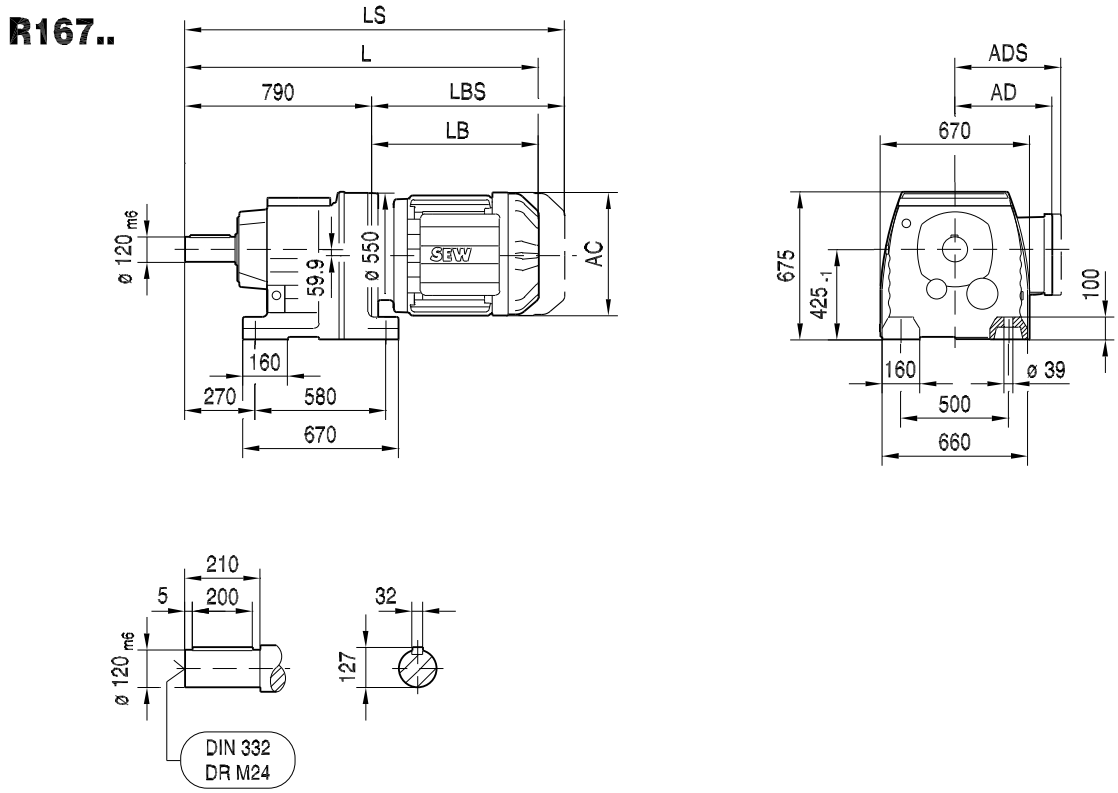




(→ 127)	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..
AC	270	316	316	394	394	394	510	510
AD	228	253	253	283	283	283	397	397
ADS	228	253	253	283	283	283	397	397
L	1134	1203	1263	1336	1336	1386	1475	1475
LS	1271	1392	1452	1541	1541	1591	1660	1660
LB	439	508	568	641	641	691	780	780
LBS	576	697	757	846	846	896	965	965

01 163 00 09

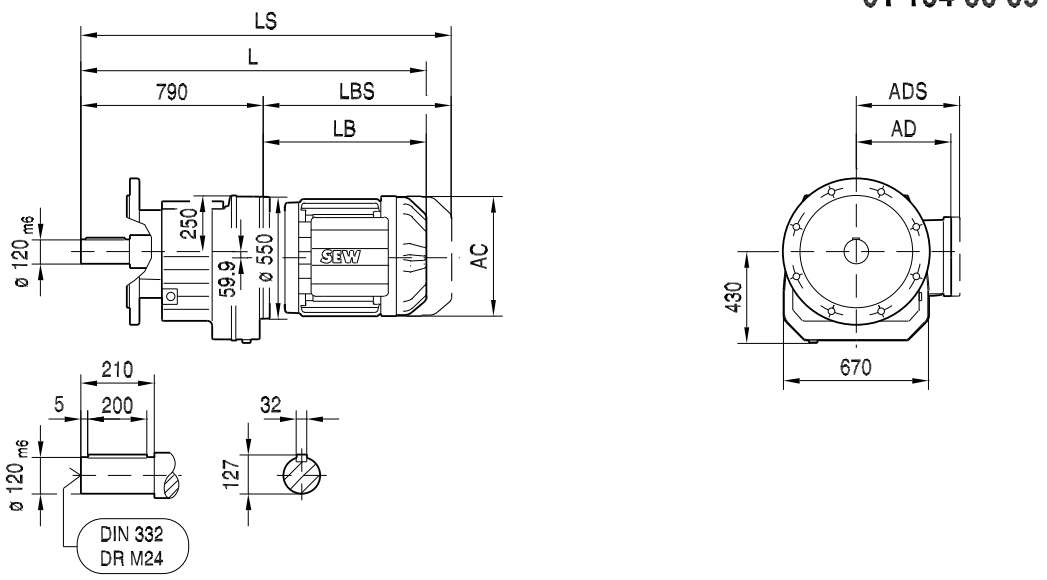
R167..



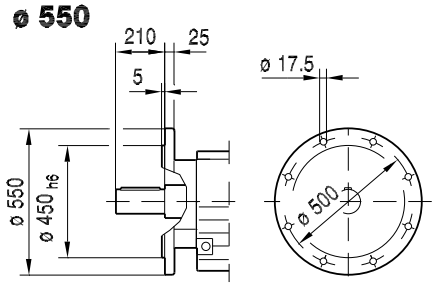
(→ 127)	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..	
AC	316	316	394	394	394	510	510	
AD	253	253	283	283	283	397	397	
ADS	253	253	283	283	283	397	397	
L	1290	1350	1423	1423	1473	1561	1561	
LS	1479	1539	1628	1628	1678	1746	1746	
LB	500	560	633	633	683	771	771	
LBS	689	749	838	838	888	956	956	

01 164 00 09

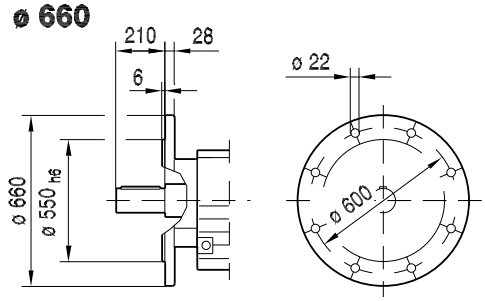
RF167..



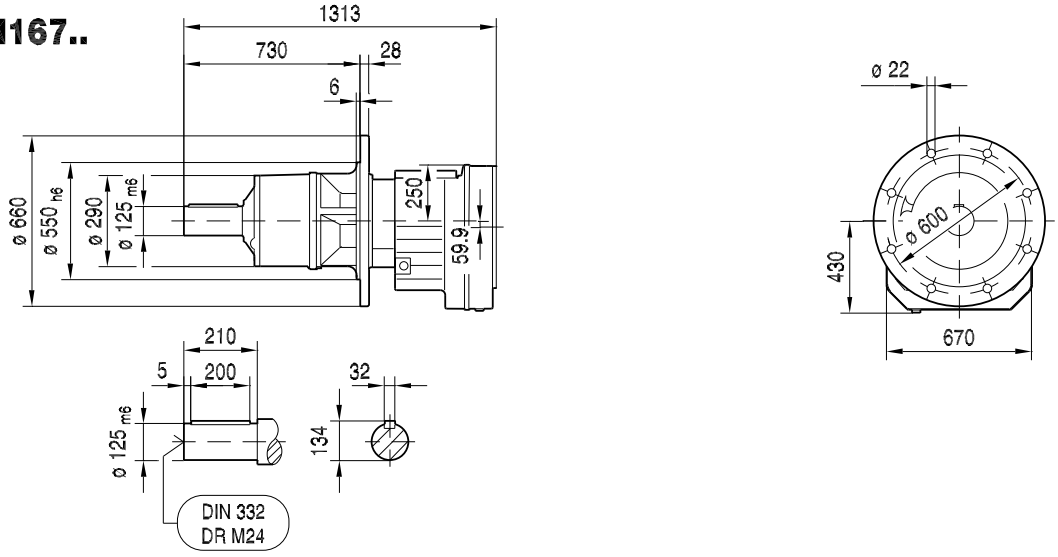
ø 550



ø 660

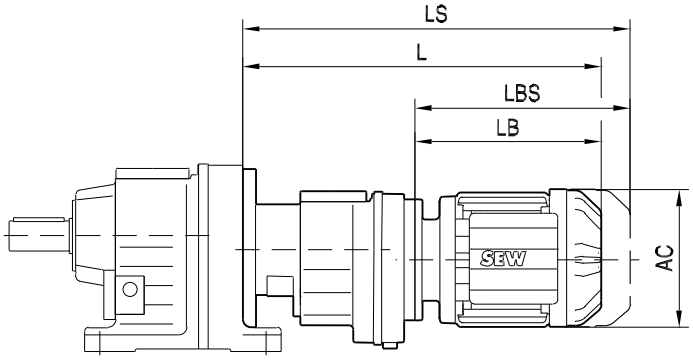


RM167..



(→ 127)	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..	
AC	316	316	394	394	394	510	510	
AD	253	253	283	283	283	397	397	
ADS	253	253	283	283	283	397	397	
L	1290	1350	1423	1423	1473	1561	1561	
LS	1479	1539	1628	1628	1678	1746	1746	
LB	500	560	633	633	683	771	771	
LBS	689	749	838	838	888	956	956	

01 131 00 06



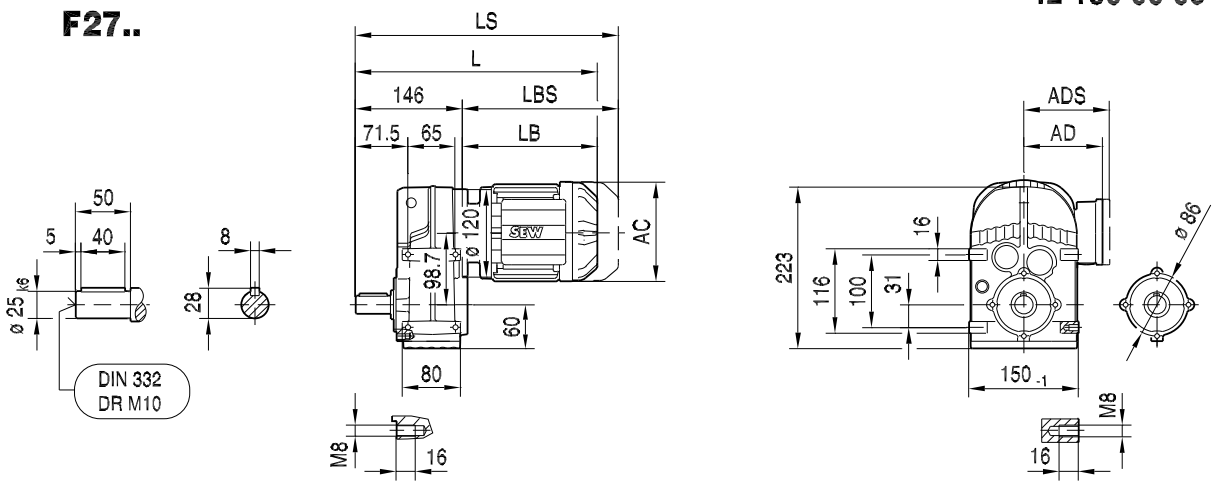
(→ 127)		AC	L	LS	LB	LBS
R..27R17	DR63..	132	324	379	149	204
R..37R17	DR63..	132	324	379	149	204
	EDR71S..	139	335	403	160	228
R..47R37R.. 57R37	DR63..	132	356	411	191	246
	EDR71S..	139	367	435	202	270
	EDR71M	139	392	460	227	295
R..67R37	DR63..	132	356	411	191	246
	EDR71S..	139	367	435	202	270
	EDR71M	139	392	460	227	295
	EDR80S..	156	401	482	236	317
R..77R37	DR63..	132	348	403	191	246
	EDR71S..	139	359	427	202	270
	EDR71M..	139	384	452	227	295
	EDR80S..	156	393	474	236	317
	EDR80M..	156	424	505	267	348
R..87R57	DR63..	132	401	456	185	240
	EDR71S..	139	412	479	196	263
	EDR71M..	139	437	504	221	288
	EDR80S..	156	446	527	230	311
	EDR80M..	156	477	558	261	342
	EDR90M..	179	478	572	262	356
R..97R57	DR63..	132	396	451	185	240
	EDR71S..	139	407	474	196	263
	EDR71M..	139	432	499	221	288
	EDR80S..	156	441	522	230	311
	EDR80M..	156	472	553	261	342
	EDR90M..	179	473	567	262	356
	EDR90L..	179	493	587	282	376
	EDR100M..	197	523	617	312	406
R..107R77	DR63..	132	426	481	179	234
	EDR71S..	139	437	504	190	257
	EDR71M..	139	462	529	215	282
	EDR80S..	156	470	551	223	304
	EDR80M..	156	501	582	254	335
	EDR90M..	179	501	595	254	348
	EDR90L..	179	521	615	274	368
	EDR100M..	197	551	645	304	398
	EDR100LC..	197	581	675	334	428
R..137R77	DR63..	132	419	474	179	234
	EDR71S..	139	430	497	190	257
	EDR71M..	139	455	522	215	282
	EDR80S..	156	463	544	223	304
	EDR80M..	156	494	575	254	335
	EDR90M..	179	494	588	254	348
	EDR90L..	179	514	608	274	368

(→ 127)		AC	L	LS	LB	LBS
R..137R77	EDR100M..	197	544	638	304	398
	EDR100LC..	197	574	668	334	428
	EDR132S..	221	619	731	379	491
	EDR132M..	221	669	789	429	541
R..147R77	DR63..	132	411	466	179	234
	EDR71S..	139	422	489	190	257
	EDR71M..	139	447	514	215	282
	EDR80S..	156	455	536	223	304
	EDR80M..	156	486	567	254	335
	EDR90M..	179	486	580	254	348
	EDR90L..	179	506	600	274	368
	EDR100M..	197	536	630	304	398
	EDR100LC..	197	566	660	334	428
	EDR132S..	221	611	723	379	491
R..147R87	EDR90M..	179	530	624	250	344
	EDR90L..	179	550	644	270	364
	EDR100M..	197	580	674	300	394
	EDR100LC..	197	610	704	330	424
	EDR132S..	221	654	766	374	486
	EDR132M/MC..	221	704	816	424	536
	EDR160..	272	745	882	465	602
R..167R97	EDR71M..	139	529	596	204	271
	EDR80S..	156	538	619	213	294
	EDR80M..	156	569	650	244	325
	EDR90M..	179	569	663	244	338
	EDR90L..	179	589	683	264	358
	EDR100M..	197	619	713	294	388
	EDR100LC..	197	649	743	324	418
	EDR132S..	221	694	806	369	481
	EDR132M/MC..	221	744	856	419	531
	EDR160..	272	785	922	460	597
R..167R107	EDR90L..	179	649	734	258	352
	EDR100M..	197	670	764	288	382
	EDR100LC..	197	700	794	318	412
	EDR132S..	221	745	857	363	475
	EDR132M/MC..	221	795	907	413	525
	EDR160..	272	836	973	454	591
	EDR180M..	317	922	1121	540	739

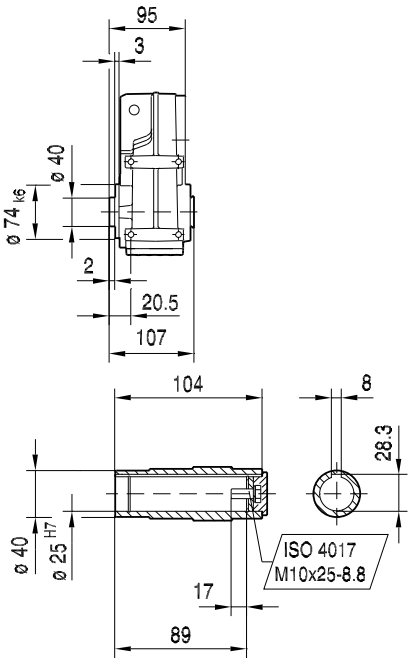
10.2 Parallel-shaft helical gearmotors

42 130 00 09

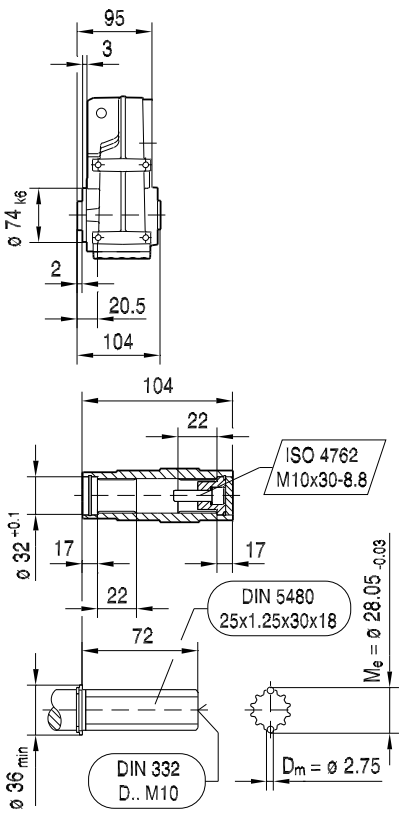
F27..



FA27B..



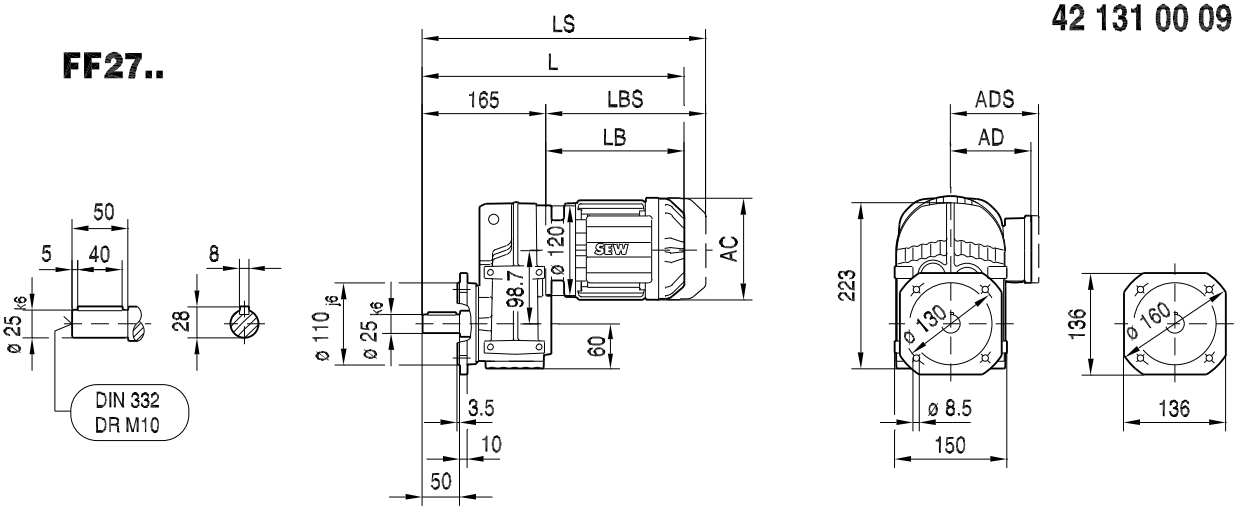
FV27B..



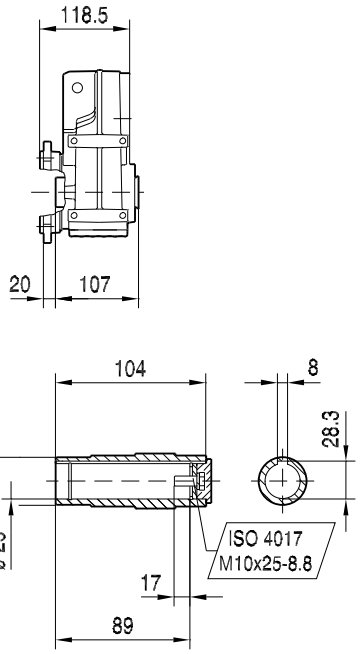
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M
AC	132	139	139	156	156	179	179	197
AD	105	129	129	139	139	150	150	158
ADS	105	129	129	139	139	150	150	158
L	337	349	374	383	414	418	438	468
LS	392	416	441	464	495	511	531	561
LB	191	203	228	237	268	272	292	322
LBS	246	270	295	318	349	365	385	415

42 131 00 09

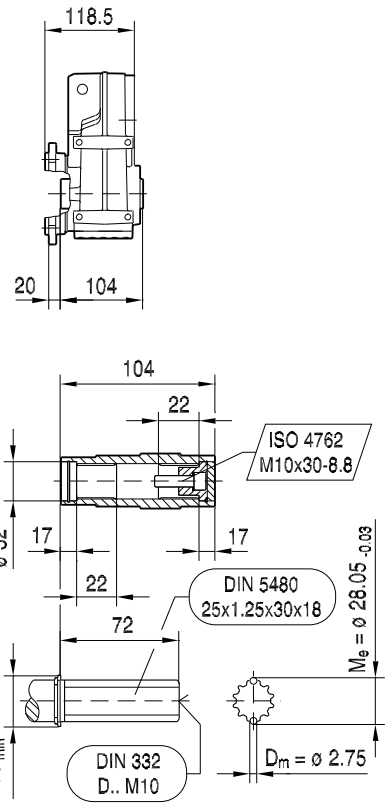
FF27..



FAF27..



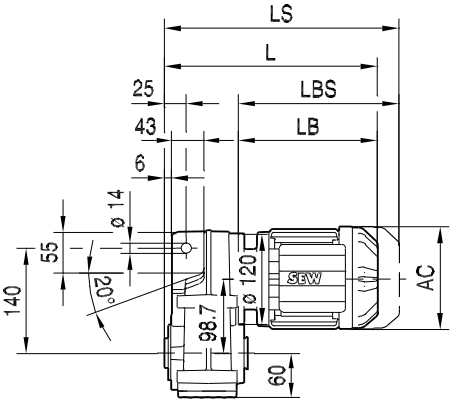
FVF27..

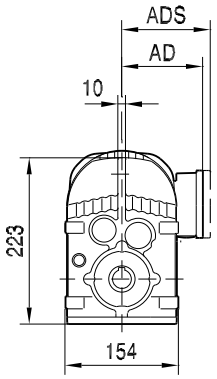


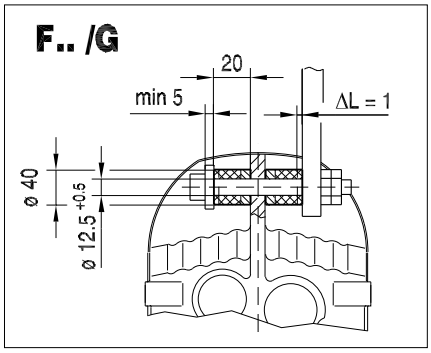
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M
AC	132	139	139	156	156	179	179	197
AD	105	129	129	139	139	150	150	158
ADS	105	129	129	139	139	150	150	158
L	356	368	393	402	433	437	457	487
LS	411	435	460	483	514	530	550	580
LB	191	203	228	237	268	272	292	322
LBS	246	270	295	318	349	365	385	415

FA27..

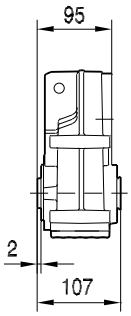
42 132 00 09

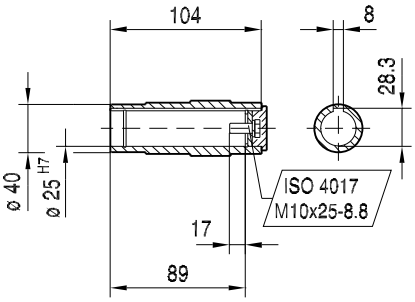




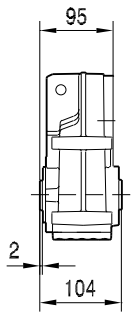


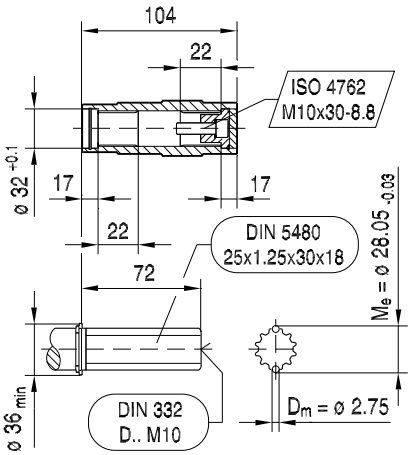
FA27..





FV27..

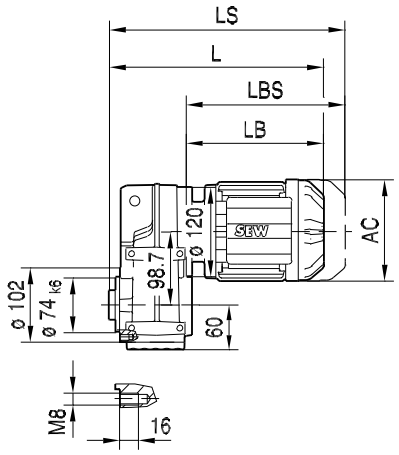


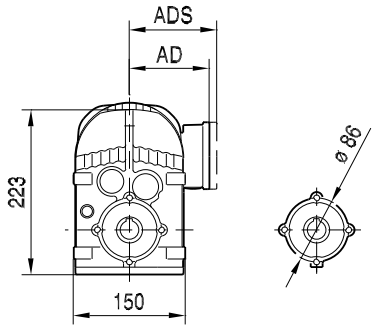


(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M
AC	132	139	139	156	156	179	179	197
AD	105	129	129	139	139	150	150	158
ADS	105	129	129	139	139	150	150	158
L	286	298	323	332	363	367	387	417
LS	341	365	390	413	444	460	480	510
LB	191	203	228	237	268	272	292	322
LBS	246	270	295	318	349	365	385	415

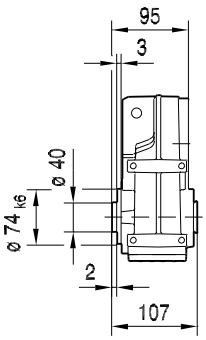
FAZ27..

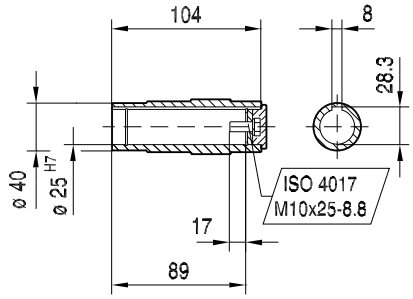
42 133 00 09



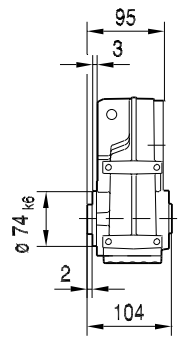


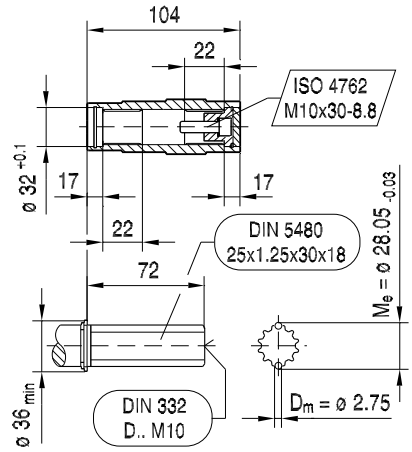
FAZ27..





FVZ27..

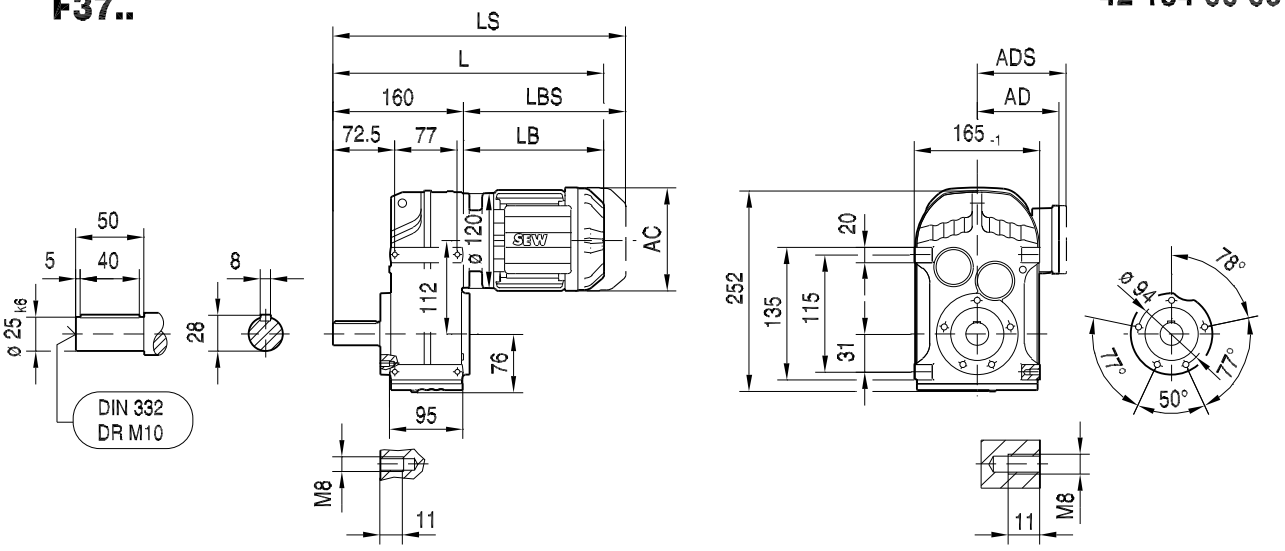




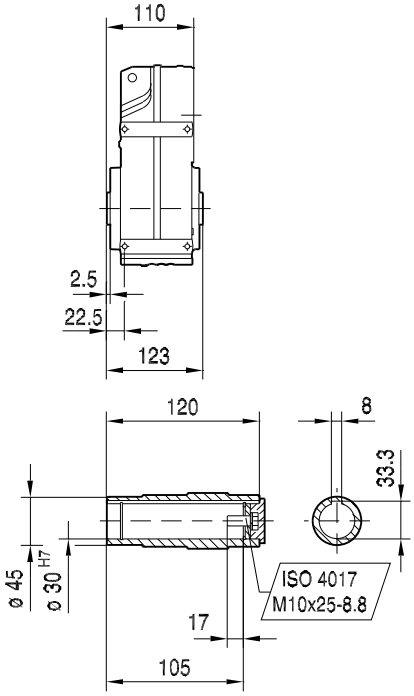
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M
AC	132	139	139	156	156	179	179	197
AD	105	129	129	139	139	150	150	158
ADS	105	129	129	139	139	150	150	158
L	286	298	323	332	363	367	387	417
LS	341	365	390	413	444	460	480	510
LB	191	203	228	237	268	272	292	322
LBS	246	270	295	318	349	365	385	415

F37..

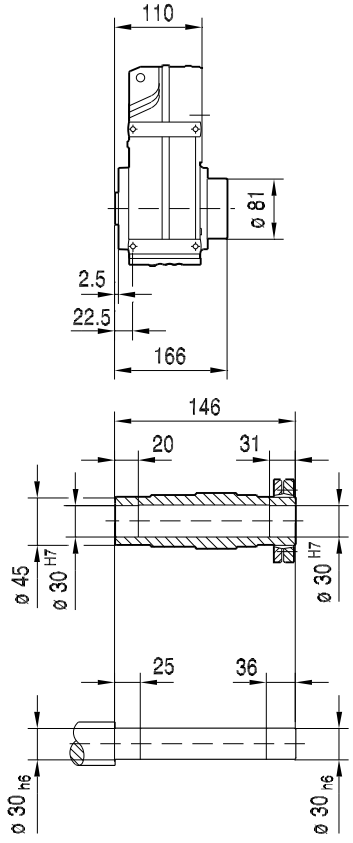
42 134 00 09



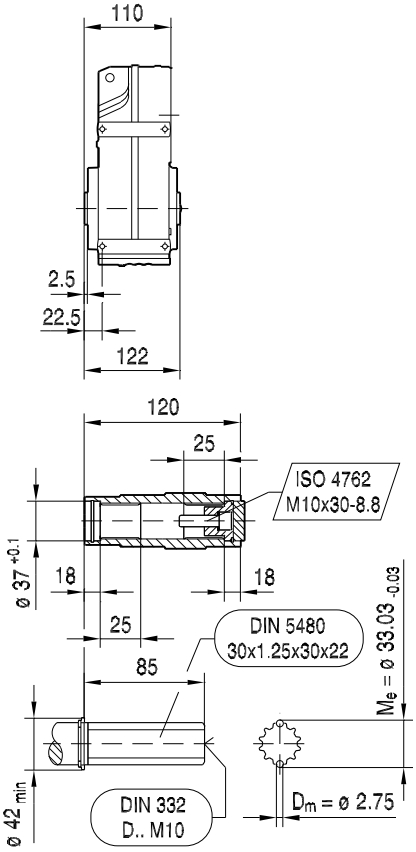
FA37B..



FH37B..
max. EDR71M

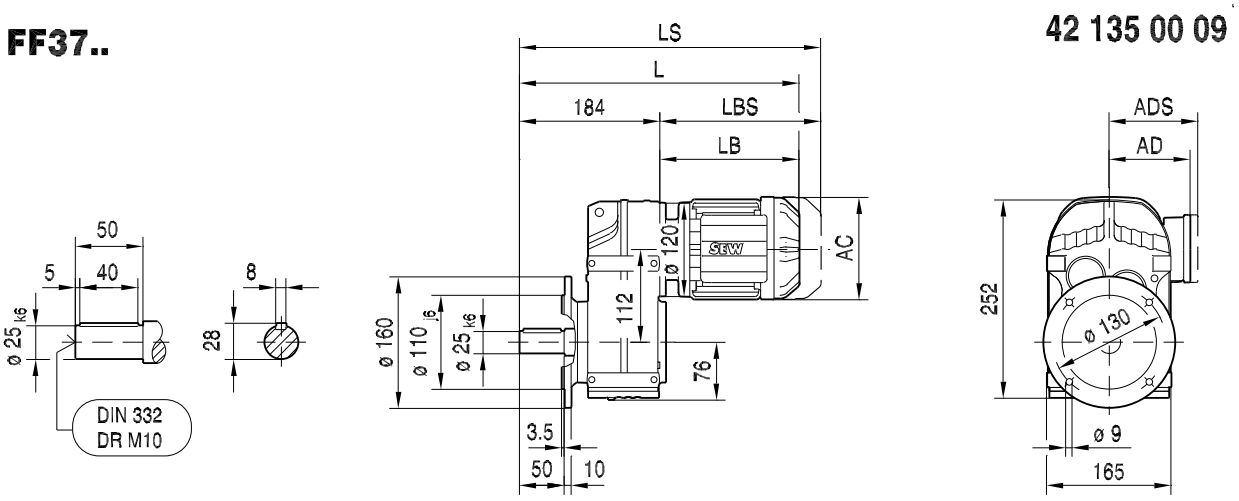


FV37B..

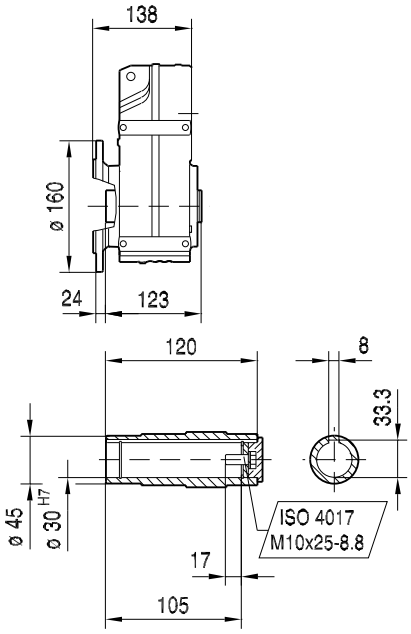


(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	351	363	388	397	428	432	452	482	512
LS	406	430	455	478	509	525	545	575	605
LB	191	203	228	237	268	272	292	322	352
LBS	246	270	295	318	349	365	385	415	445

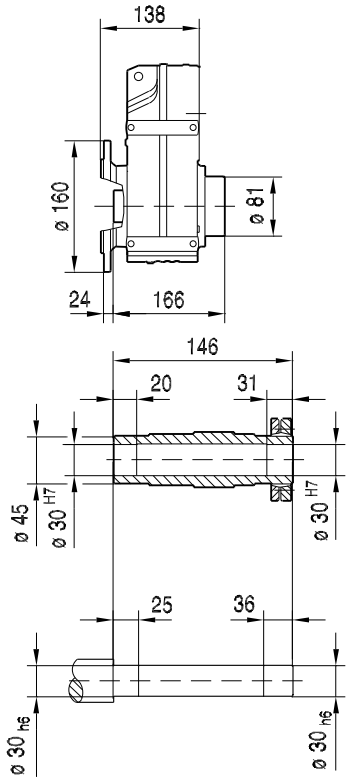
FF37..



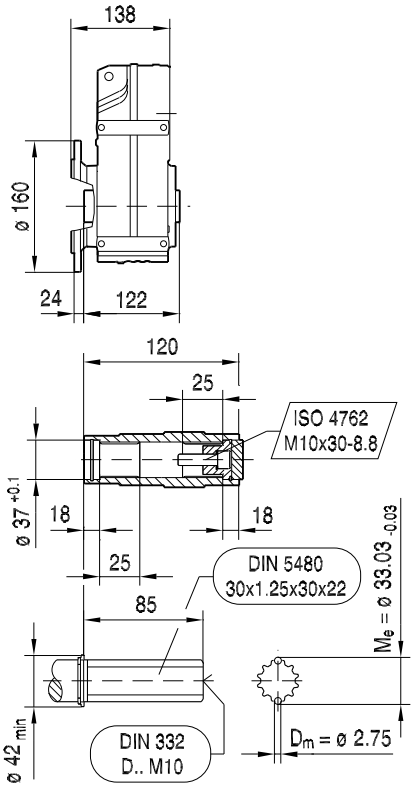
FAF37..



FHF37..
max. EDR71M

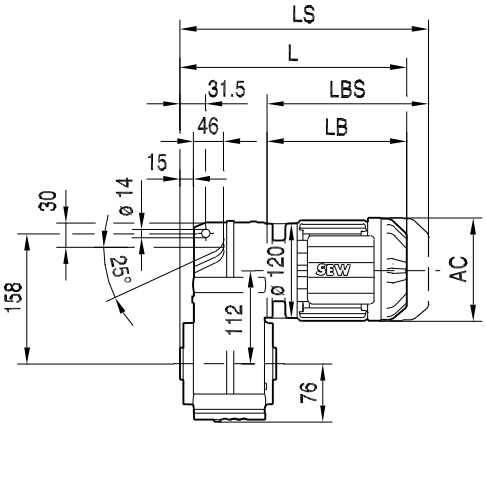


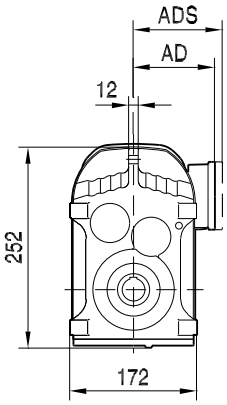
FVF37..



(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	375	387	412	421	452	456	476	506	536
LS	430	454	479	502	533	549	569	599	629
LB	191	203	228	237	268	272	292	322	352
LBS	246	270	295	318	349	365	385	415	445

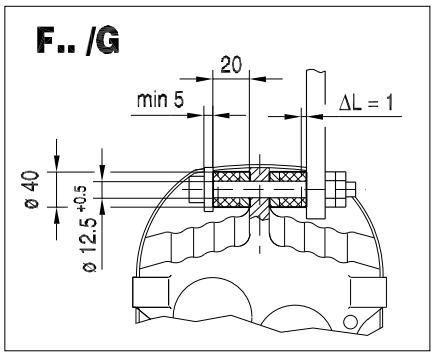
FA37..



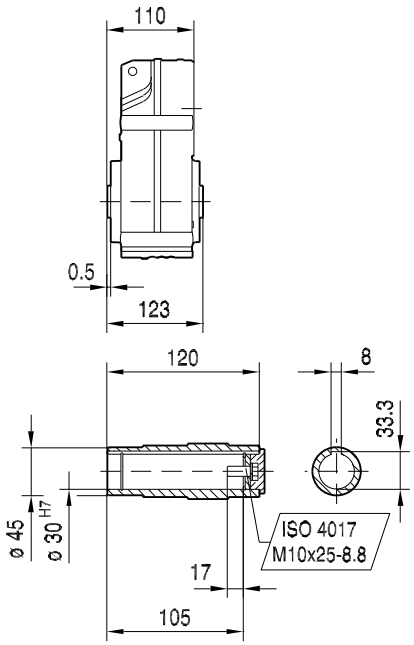


42 136 00 09

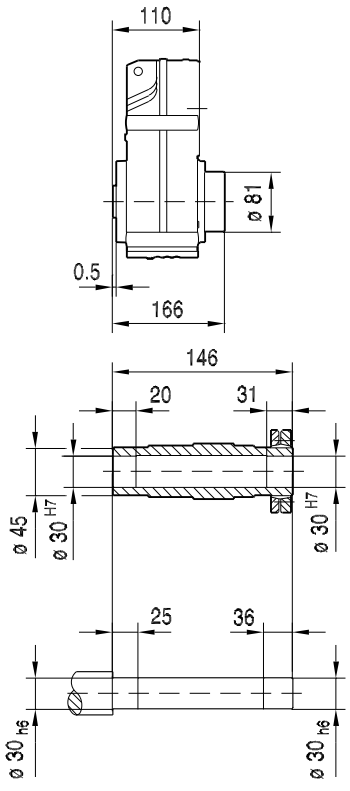
F.. /G



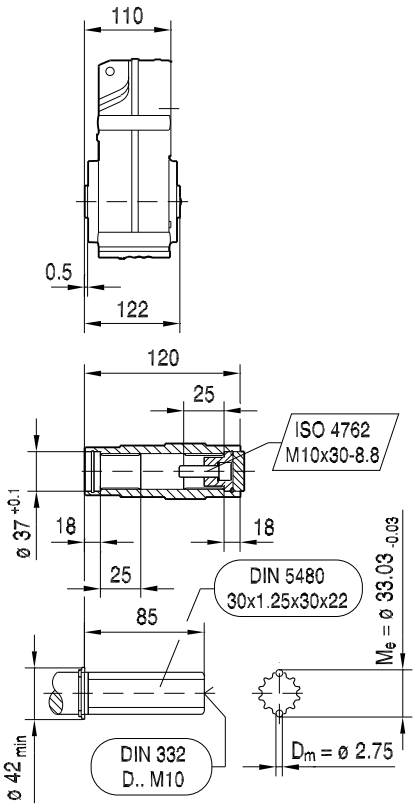
FA37..



FH37..
max. EDR71M



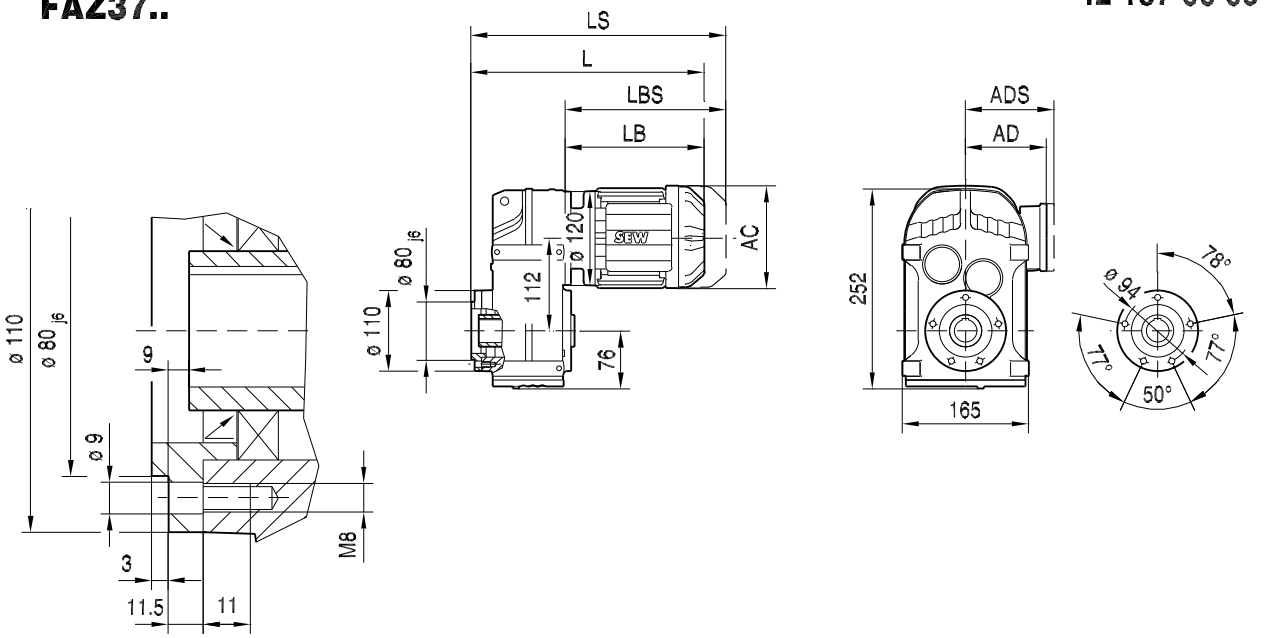
FV37..



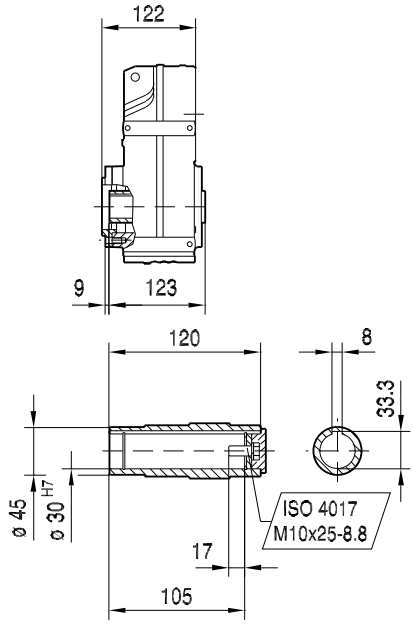
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	301	313	338	347	378	382	402	432	462
LS	356	380	405	428	459	475	495	525	555
LB	191	203	228	237	268	272	292	322	352
LBS	246	270	295	318	349	365	385	415	445

42 137 00 09

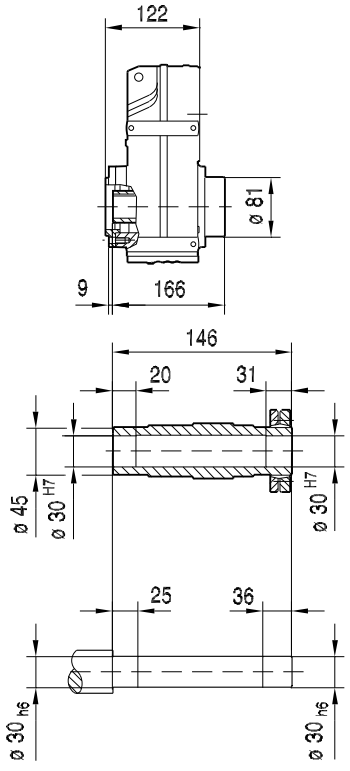
FAZ37..



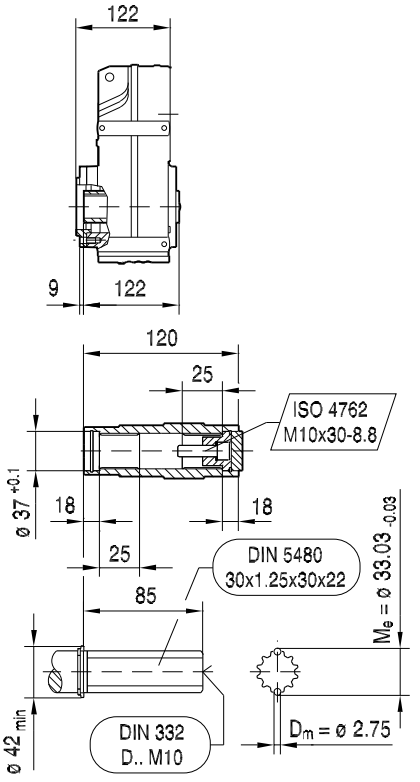
FAZ37..



FHZ37..
max. EDR71M



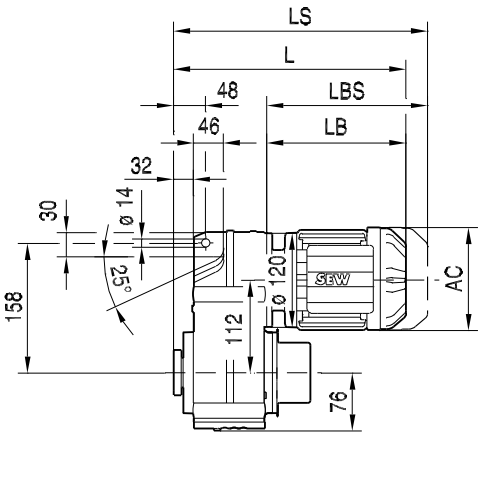
FVZ37..

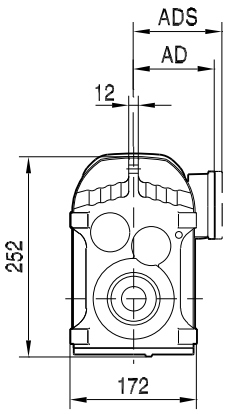


(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	313	325	350	359	390	394	414	444	474
LS	368	392	417	440	471	487	507	537	567
LB	191	203	228	237	268	272	292	322	352
LBS	246	270	295	318	349	365	385	415	445

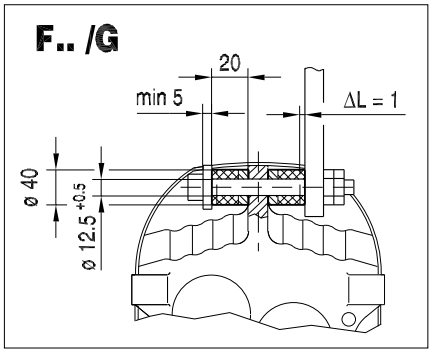
42 138 00 09

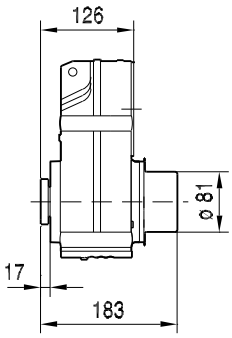
FT37..

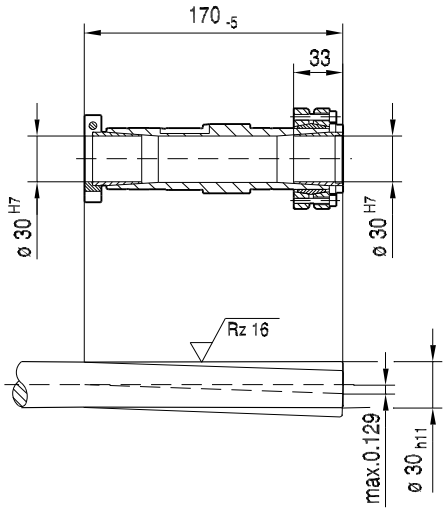


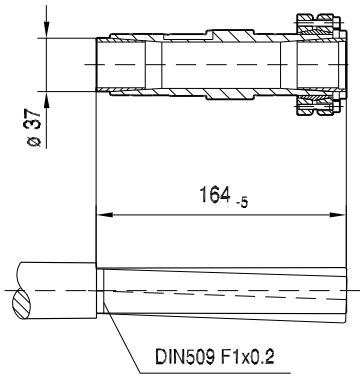


F.. /G





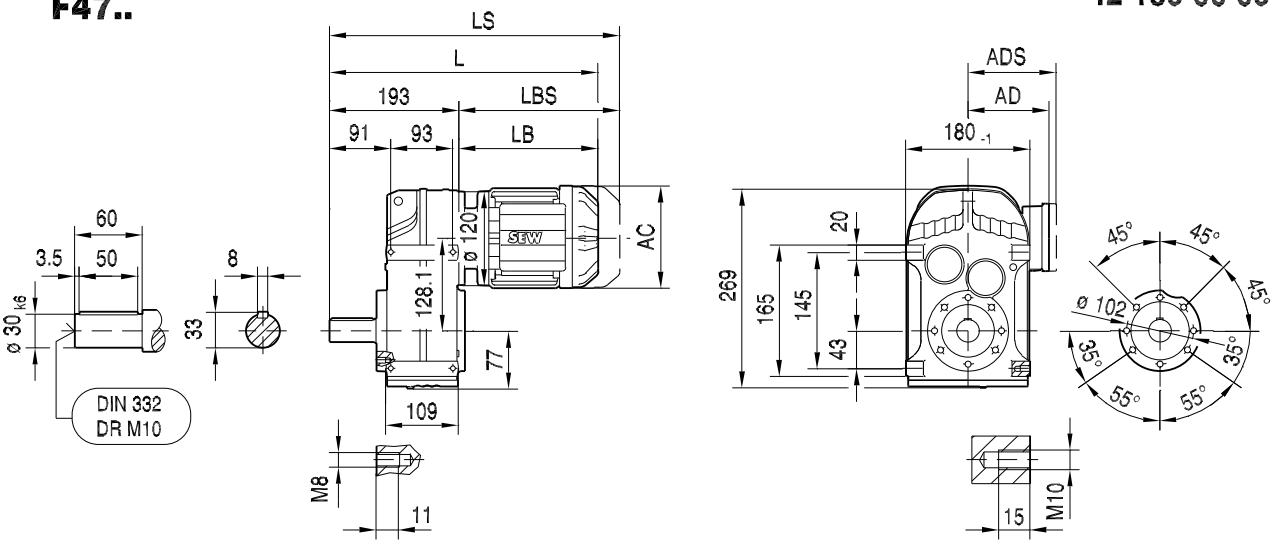




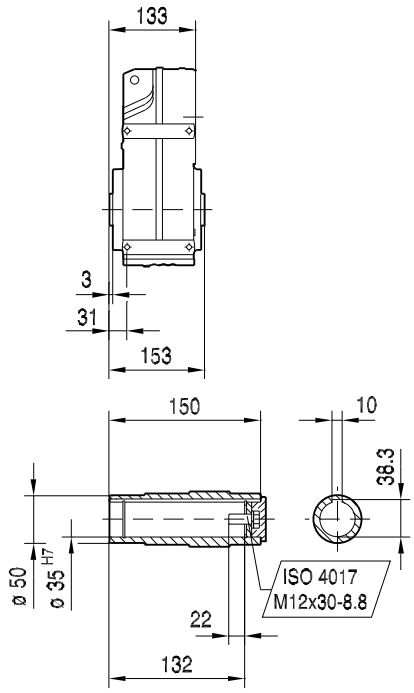
(→ 127)	DR63..	EDR71S	EDR71M					
AC	132	139	139					
AD	105	129	129					
ADS	105	129	129					
L	317	329	354					
LS	372	396	421					
LB	191	203	228					
LBS	246	270	295					

42 139 00 09

F47..

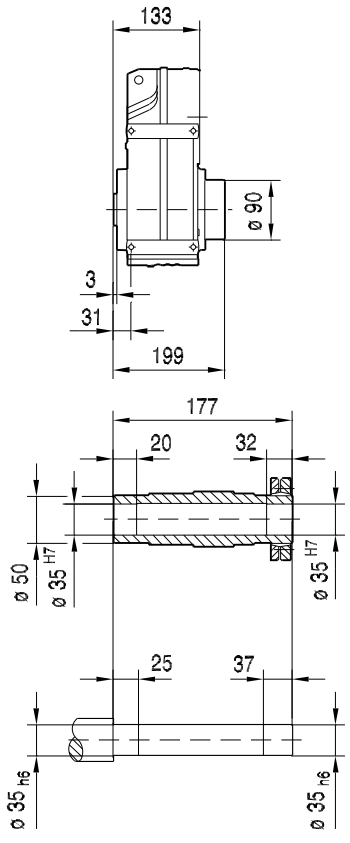


FA47B..

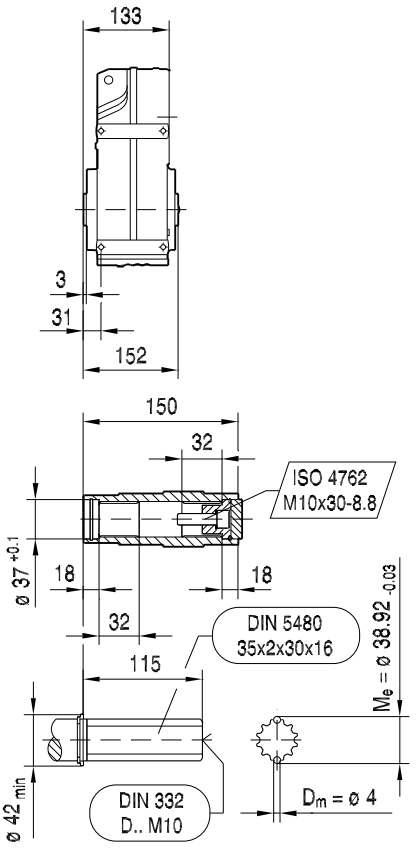


FH47B..

max. EDR71M

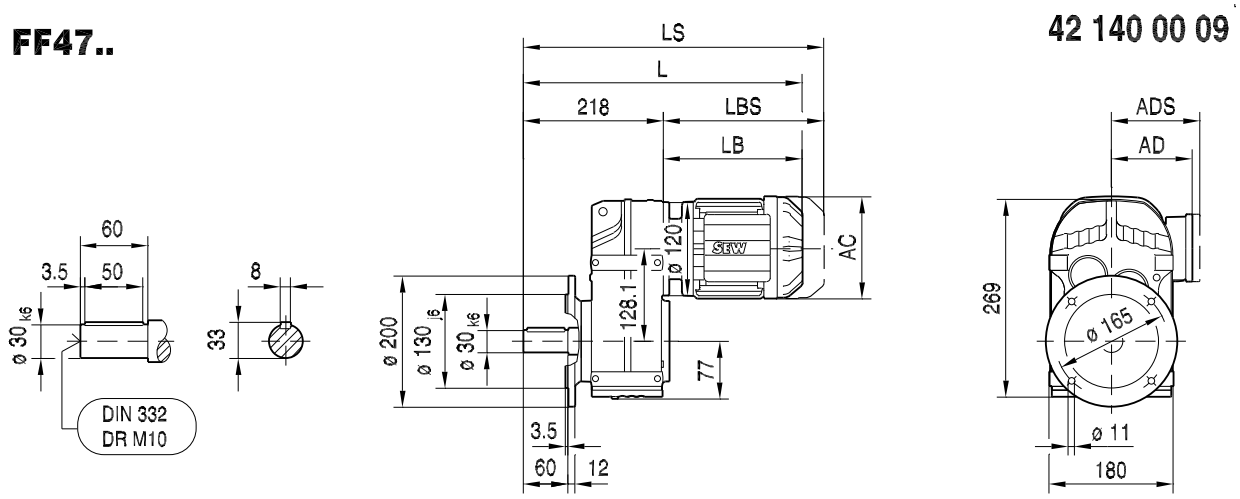


FV47B..

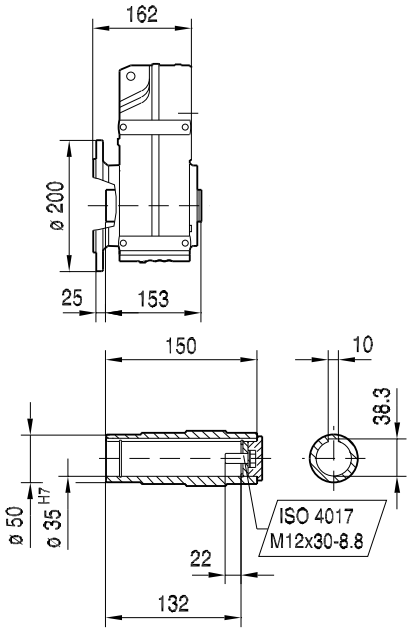


(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	384	396	421	430	461	465	485	515	545
LS	439	463	488	511	542	558	578	608	638
LB	191	203	228	237	268	272	292	322	352
LBS	246	270	295	318	349	365	385	415	445

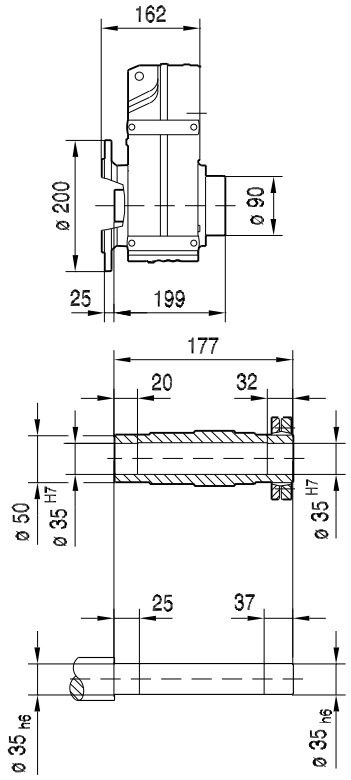
FF47..



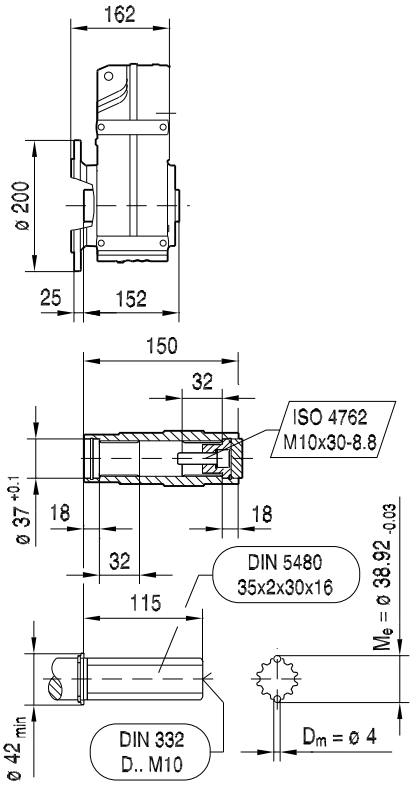
FAF47..



FHF47..
max. EDR71M



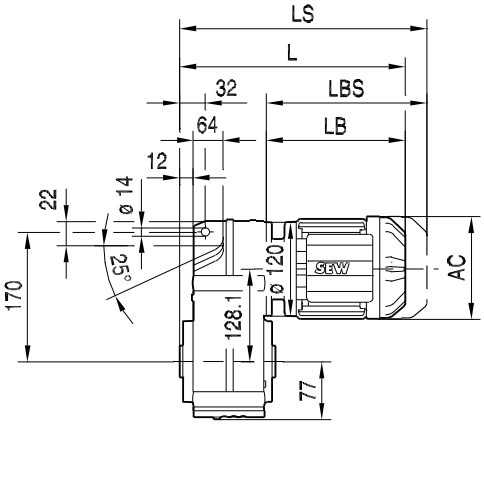
FVF47..

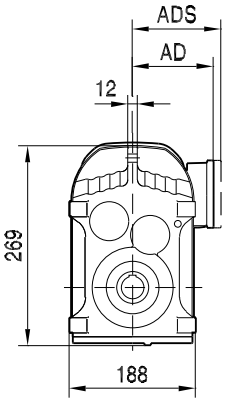


(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	409	421	446	455	486	490	510	540	570
LS	464	488	513	536	567	583	603	633	663
LB	191	203	228	237	268	272	292	322	352
LBS	246	270	295	318	349	365	385	415	445

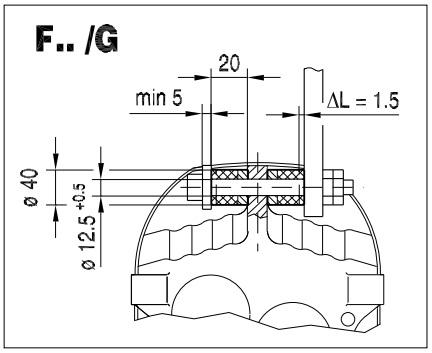
42 141 00 09

FA47..

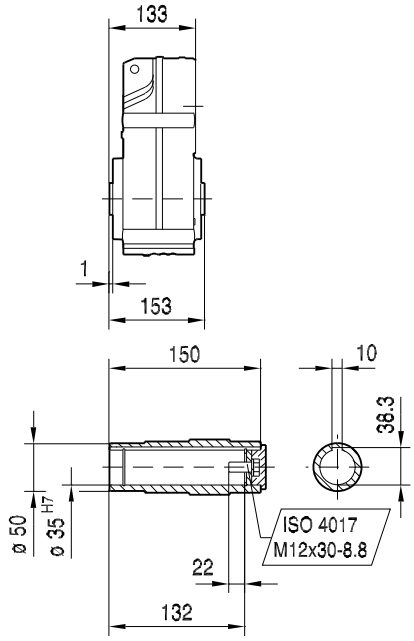




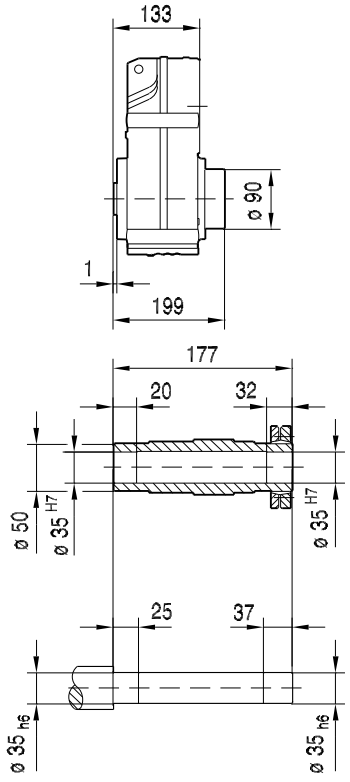
F.. /G



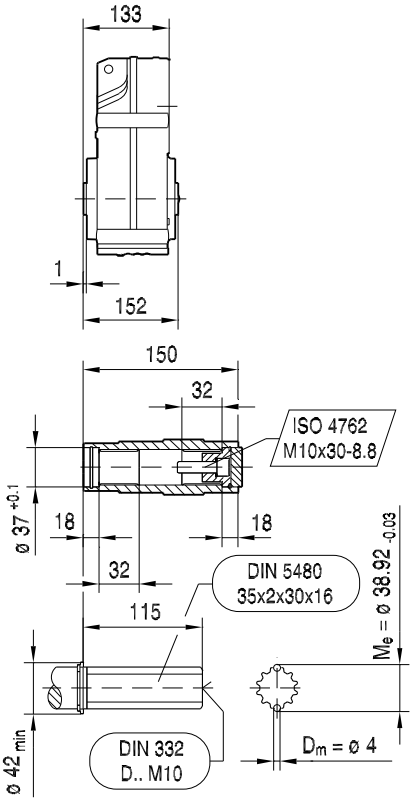
FA47..



FH47..
max. EDR71M



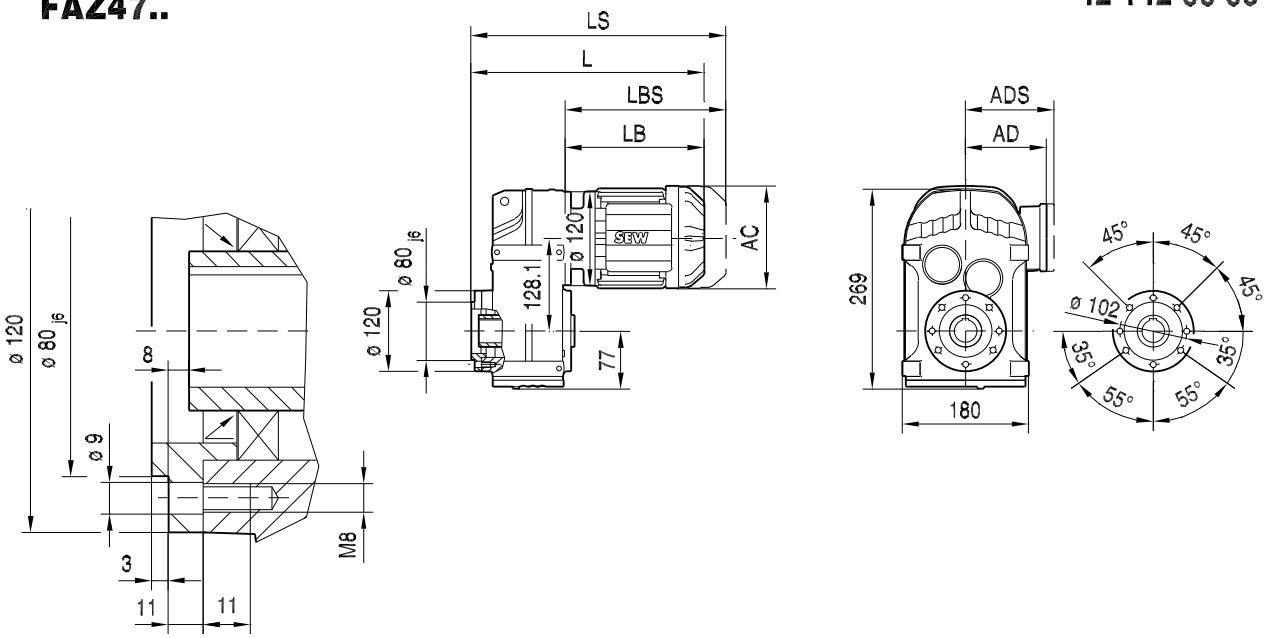
FV47..



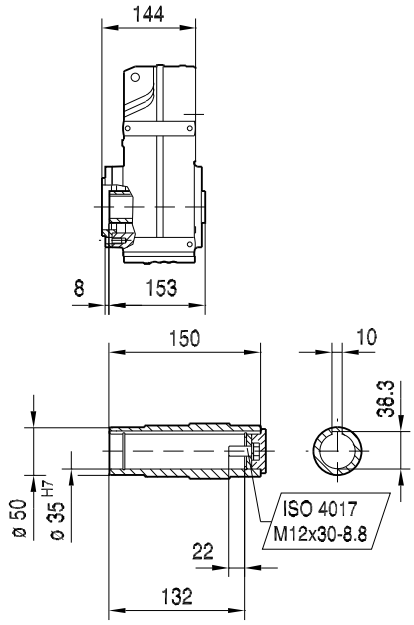
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	324	336	361	370	401	405	425	455	485
LS	379	403	428	451	482	498	518	548	578
LB	191	203	228	237	268	272	292	322	352
LBS	246	270	295	318	349	365	385	415	445

42 142 00 09

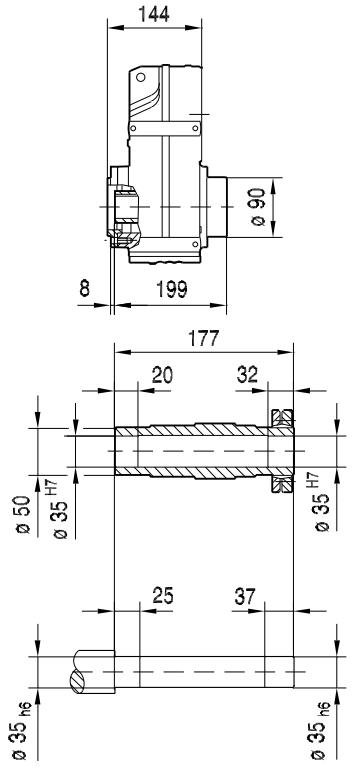
FAZ47..



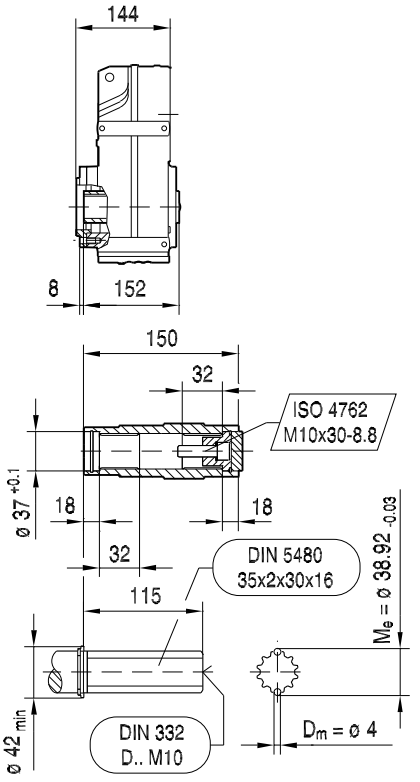
FAZ47..



FHZ47..
max. EDR71M



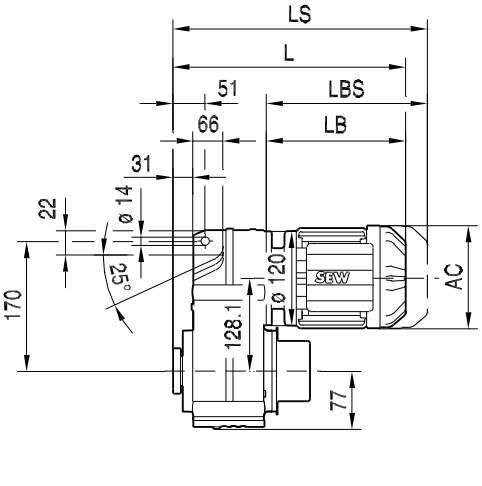
FVZ47..

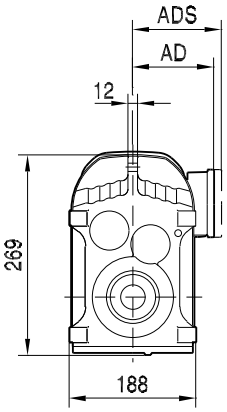


(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	335	347	372	381	412	416	436	466	496
LS	390	414	439	462	493	509	529	559	589
LB	191	203	228	237	268	272	292	322	352
LBS	246	270	295	318	349	365	385	415	445

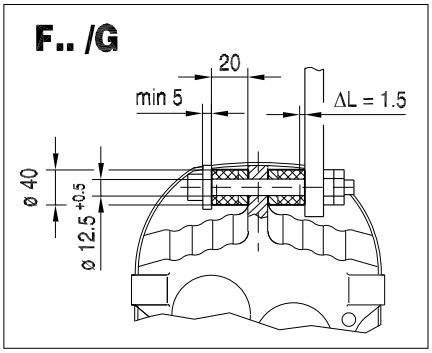
42 143 00 09

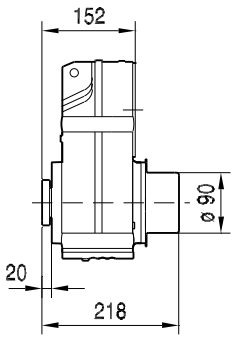
FT47..

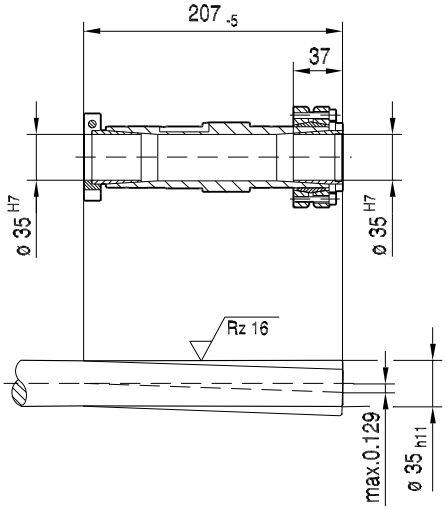


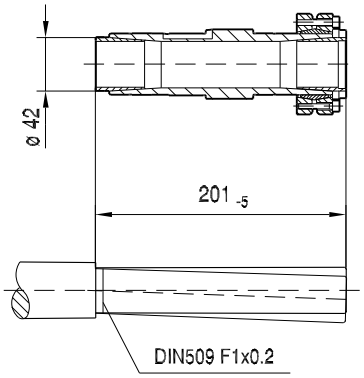


F.. /G





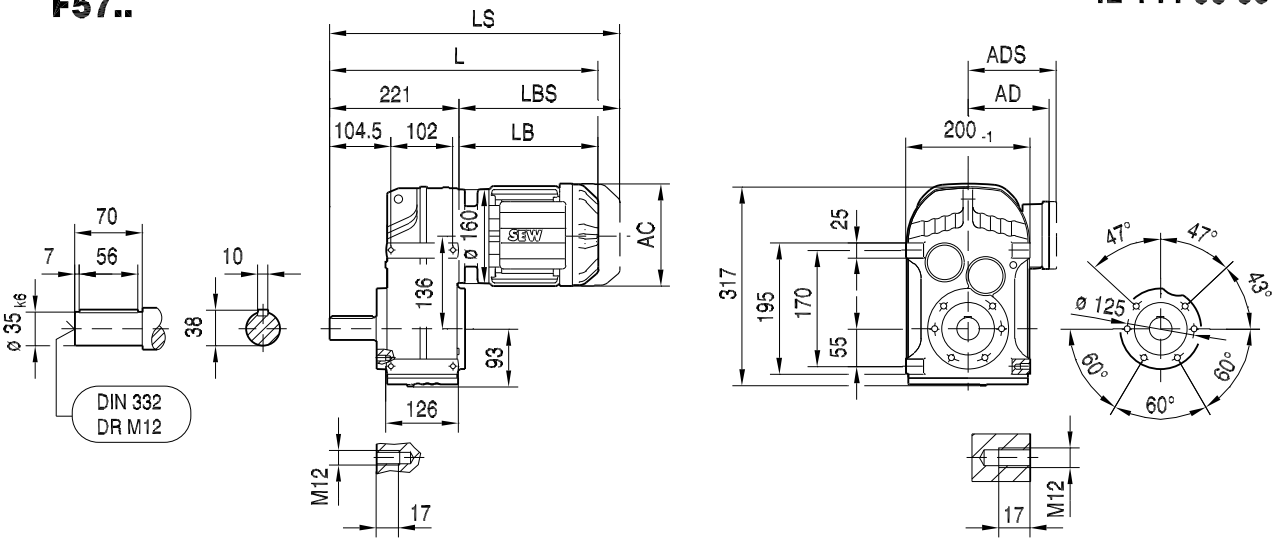




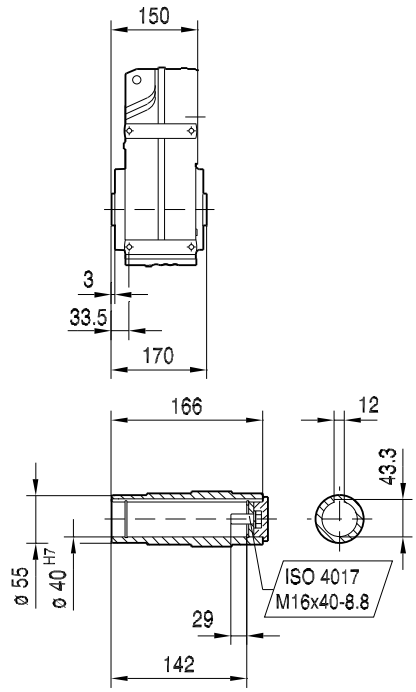
(→ 127)	DR63..	EDR71S	EDR71M					
AC	132	139	139					
AD	105	129	129					
ADS	105	129	129					
L	343	355	380					
LS	398	422	447					
LB	191	203	228					
LBS	246	270	295					

F57..

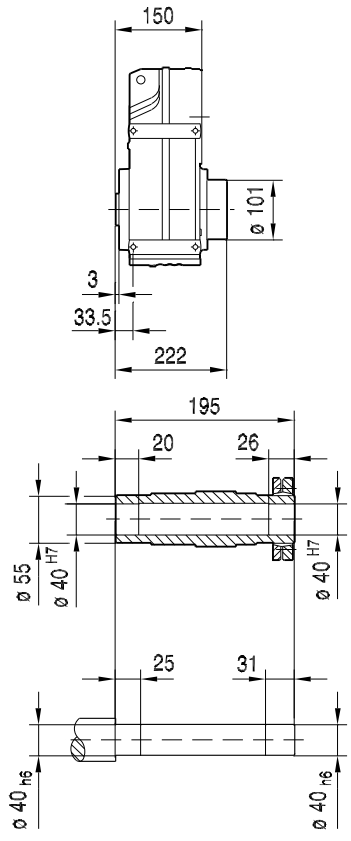
42 144 00 09



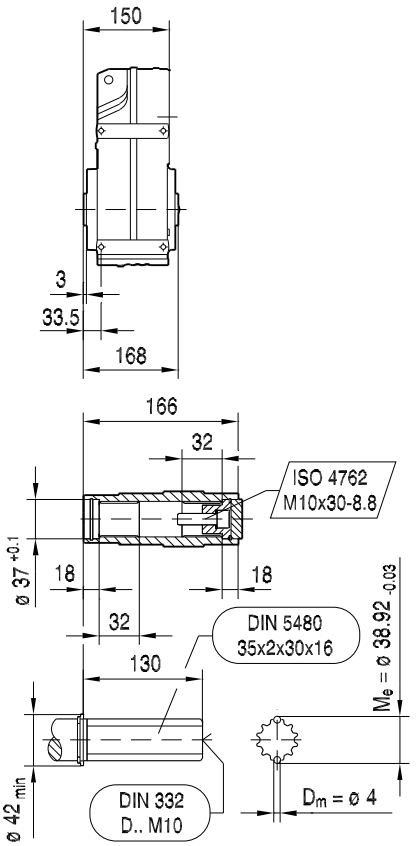
FA57B..



FH57B..
max. EDR80M



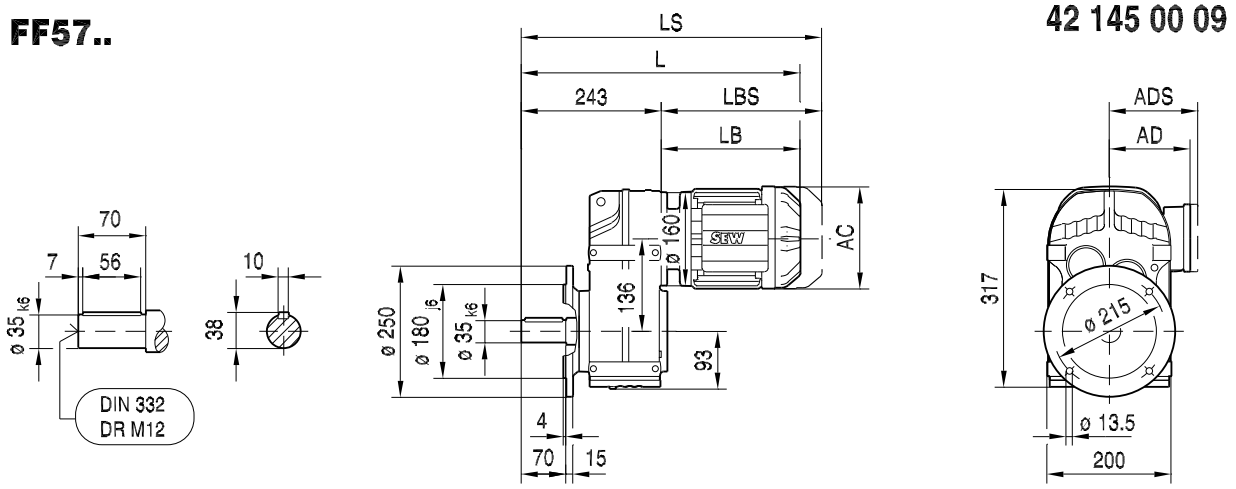
FV57B..



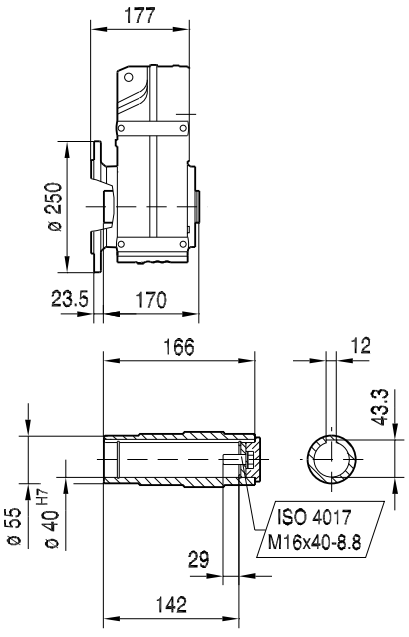
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC
AC	132	139	139	156	156	179	179	197	197	221	221
AD	105	129	129	139	139	150	150	158	158	172	172
ADS	105	129	129	139	139	150	150	158	158	172	172
L	406	417	442	451	482	484	504	534	564	611	661
LS	461	485	510	532	563	577	597	627	657	723	773
LB	185	196	221	230	261	263	283	313	343	390	440
LBS	240	264	289	311	342	356	376	406	436	502	552

FF57..

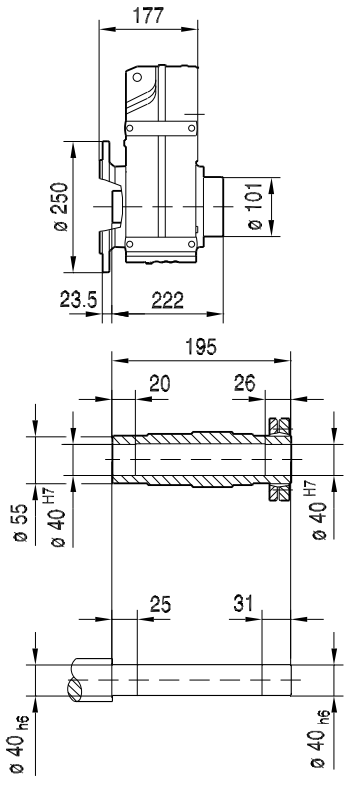
42 145 00 09



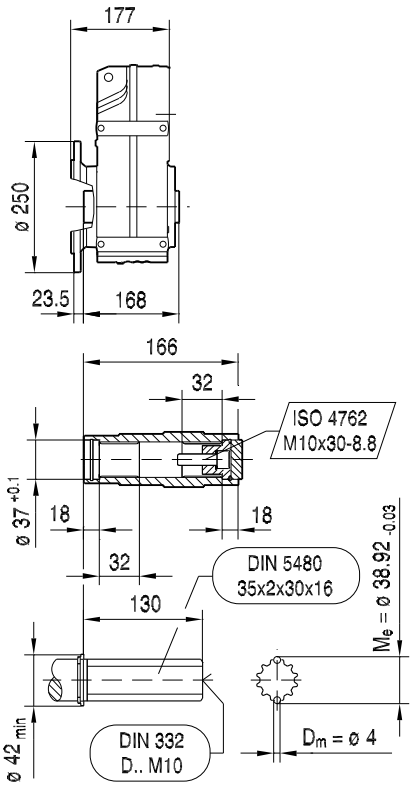
FAF57..



FHF57..
max. EDR80M

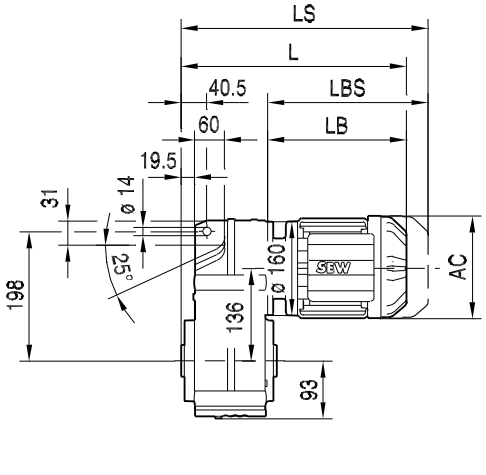


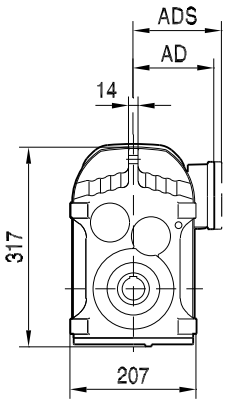
FVF57..



(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC
AC	132	139	139	156	156	179	179	197	197	221	221
AD	105	129	129	139	139	150	150	158	158	172	172
ADS	105	129	129	139	139	150	150	158	158	172	172
L	428	439	464	473	504	506	526	556	586	633	683
LS	483	507	532	554	585	599	619	649	679	745	795
LB	185	196	221	230	261	263	283	313	343	390	440
LBS	240	264	289	311	342	356	376	406	436	502	552

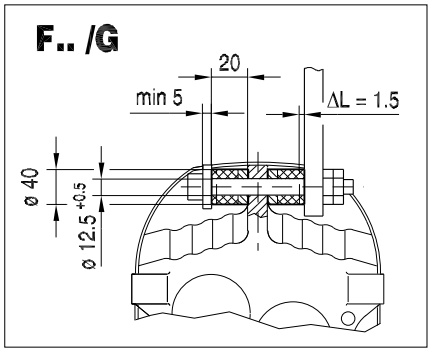
FA57..



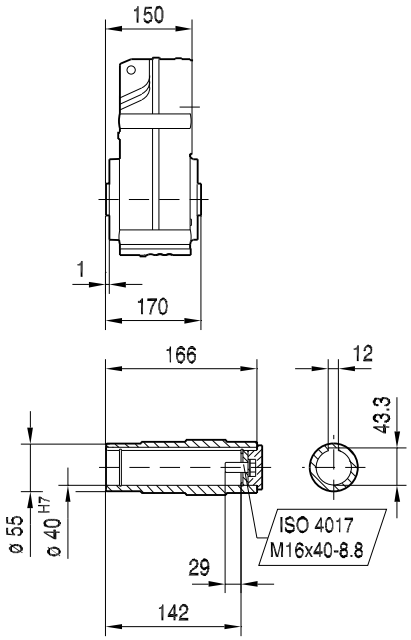


42 146 00 09

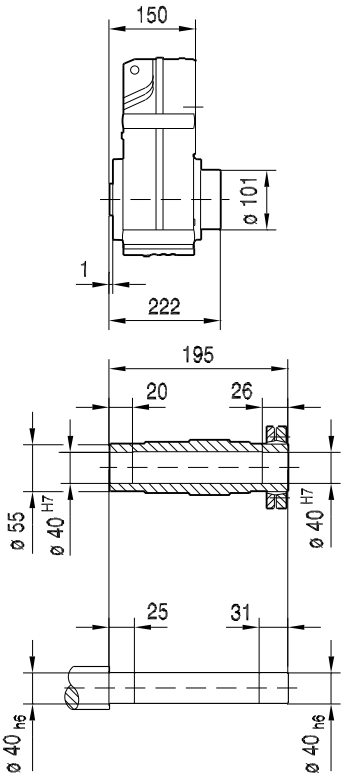
F.. /G



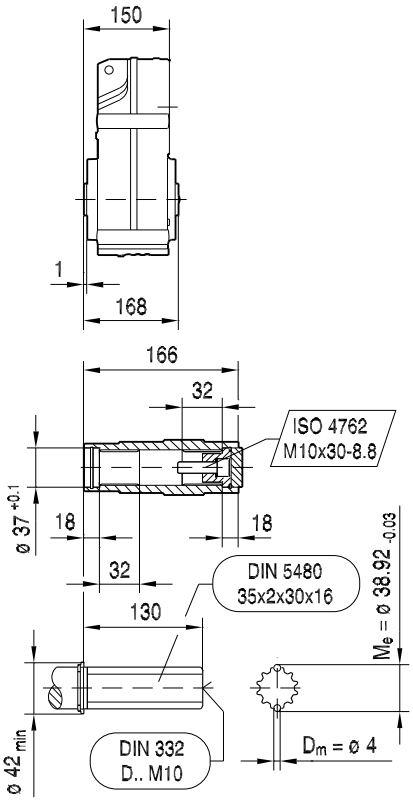
FA57..



FH57..
max. EDR80M



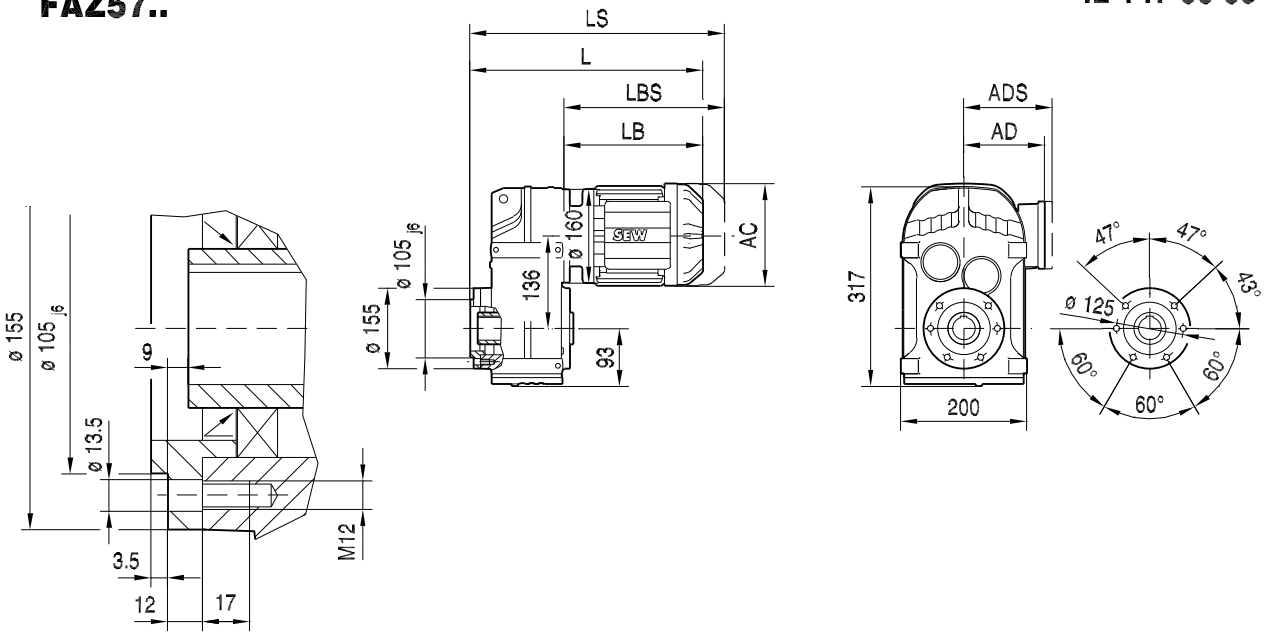
FV57..



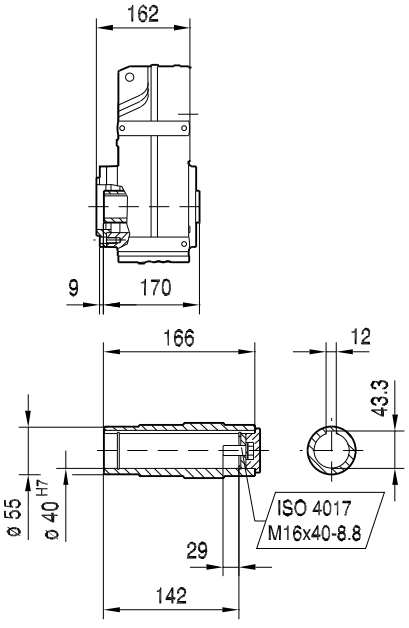
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC
AC	132	139	139	156	156	179	179	197	197	221	221
AD	105	129	129	139	139	150	150	158	158	172	172
ADS	105	129	129	139	139	150	150	158	158	172	172
L	335	346	371	380	411	413	433	463	493	540	590
LS	390	414	439	461	492	506	526	556	586	652	702
LB	185	196	221	230	261	263	283	313	343	390	440
LBS	240	264	289	311	342	356	376	406	436	502	552

42 147 00 09

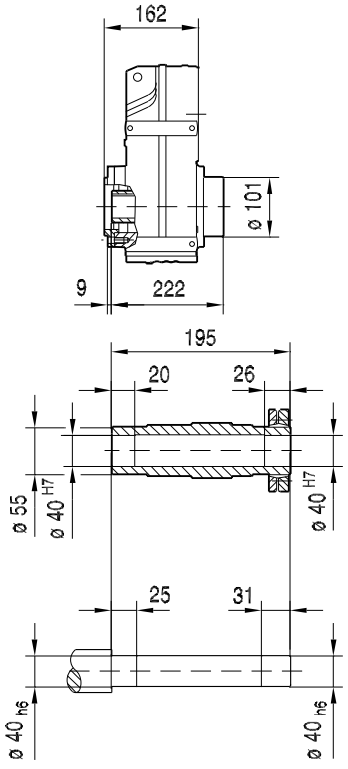
FAZ57..



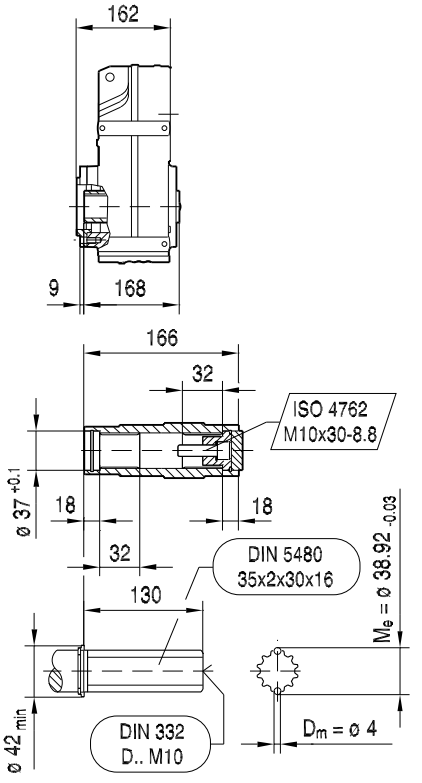
FAZ57..



FHZ57..
max. EDR80M



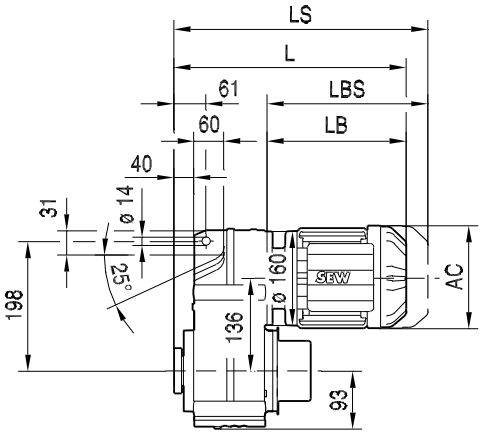
FVZ57..

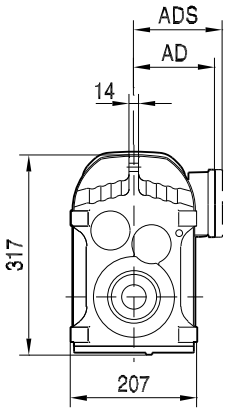


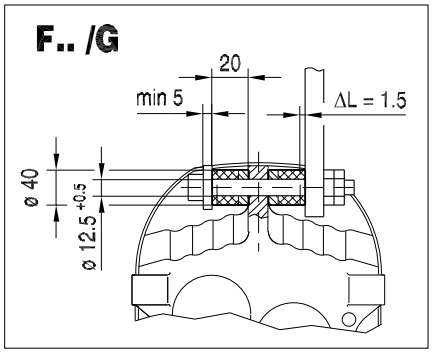
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC
AC	132	139	139	156	156	179	179	197	197	221	221
AD	105	129	129	139	139	150	150	158	158	172	172
ADS	105	129	129	139	139	150	150	158	158	172	172
L	347	358	383	392	423	425	445	475	505	552	602
LS	402	426	451	473	504	518	538	568	598	664	714
LB	185	196	221	230	261	263	283	313	343	390	440
LBS	240	264	289	311	342	356	376	406	436	502	552

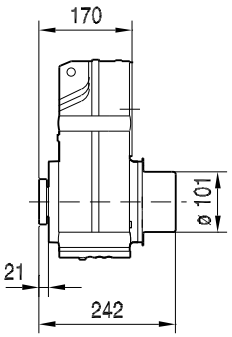
42 148 00 09

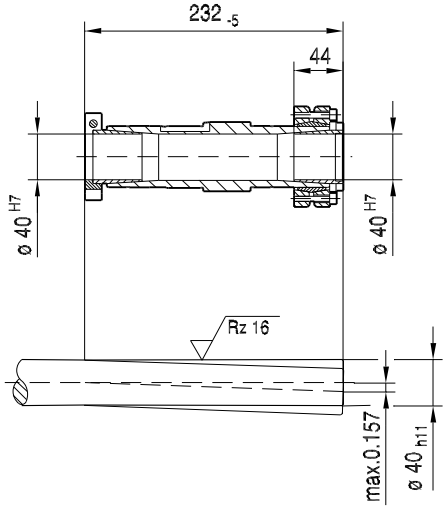
FT57..

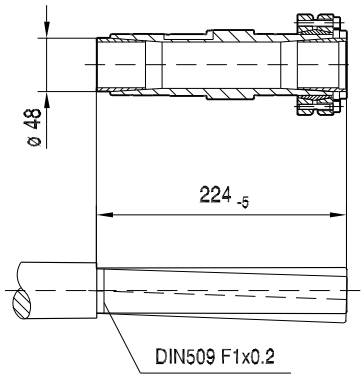








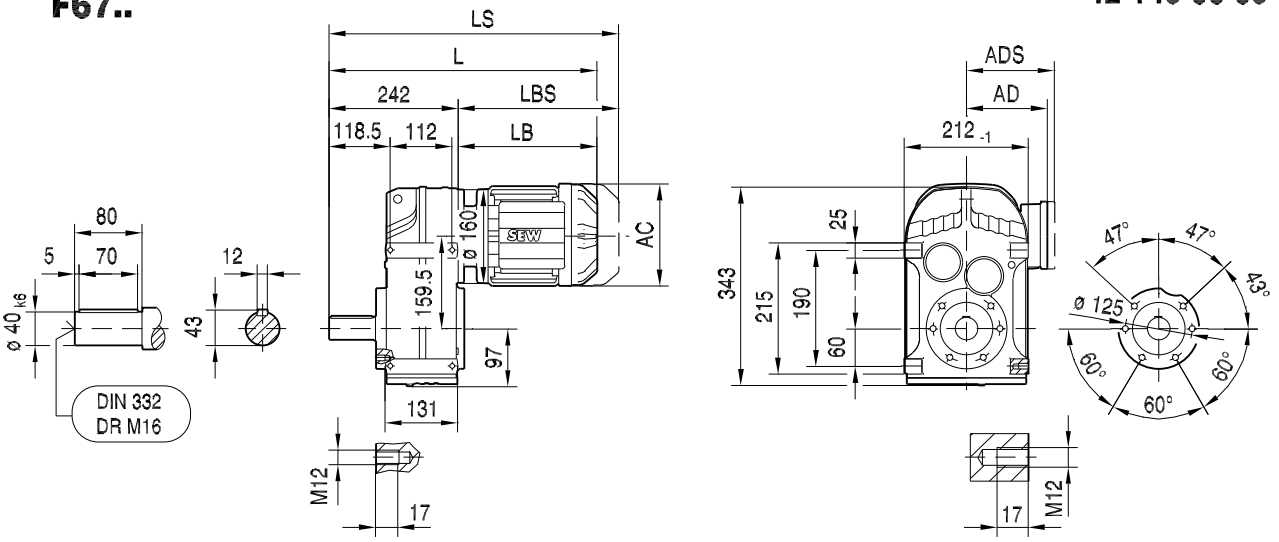




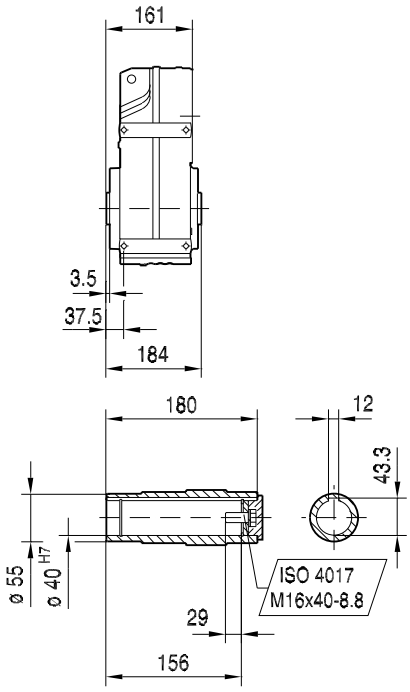
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M			
AC	132	139	139	156	156			
AD	105	129	129	139	139			
ADS	105	129	129	139	139			
L	355	366	391	400	431			
LS	410	434	459	481	512			
LB	185	196	221	230	261			
LBS	240	264	289	311	342			

42 149 00 09

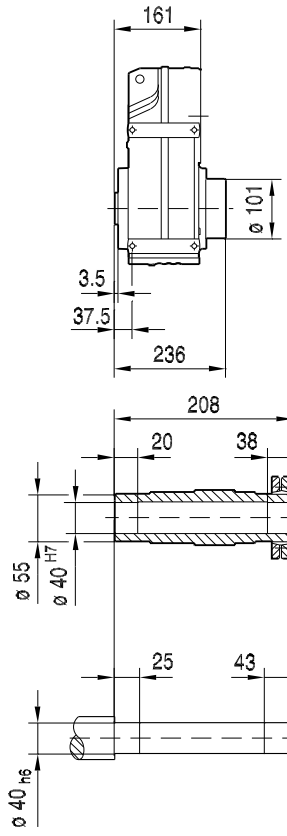
F67..



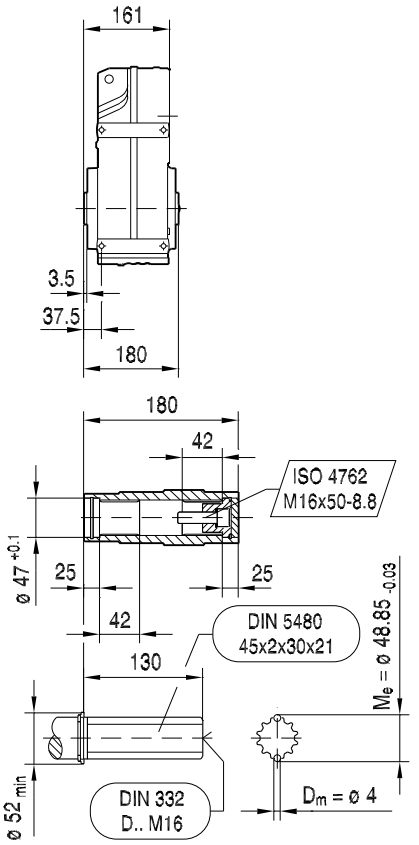
FA67B..



FH67B..
max. EDR100L/LC

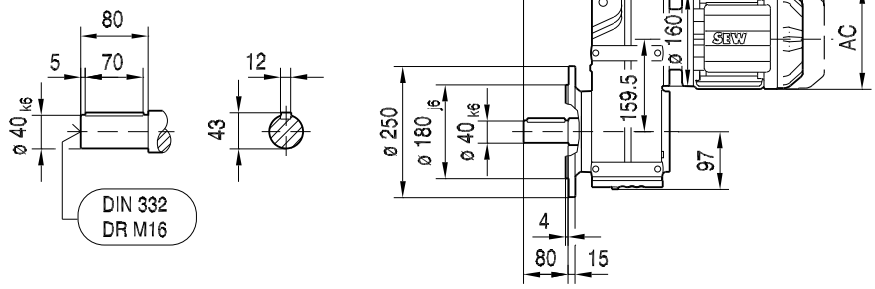


FV67B..

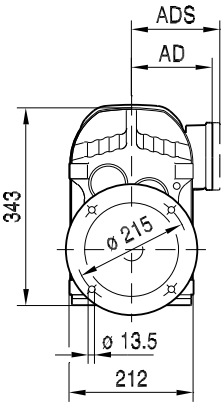


(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC
AC	132	139	139	156	156	179	179	197	197	221	221
AD	105	129	129	139	139	150	150	158	158	172	172
ADS	105	129	129	139	139	150	150	158	158	172	172
L	427	438	463	472	503	505	525	555	585	632	682
LS	482	506	531	553	584	598	618	648	678	744	794
LB	185	196	221	230	261	263	283	313	343	390	440
LBS	240	264	289	311	342	356	376	406	436	502	552

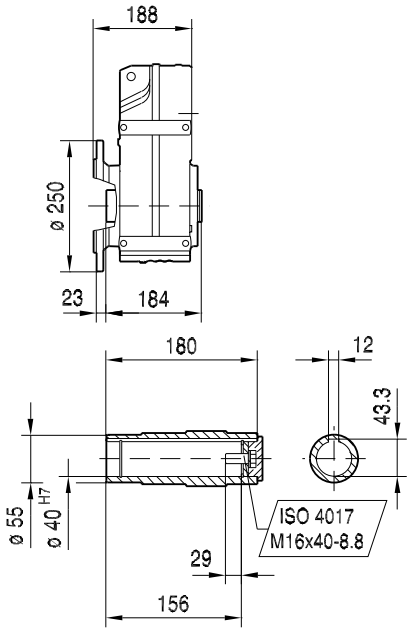
FF67..



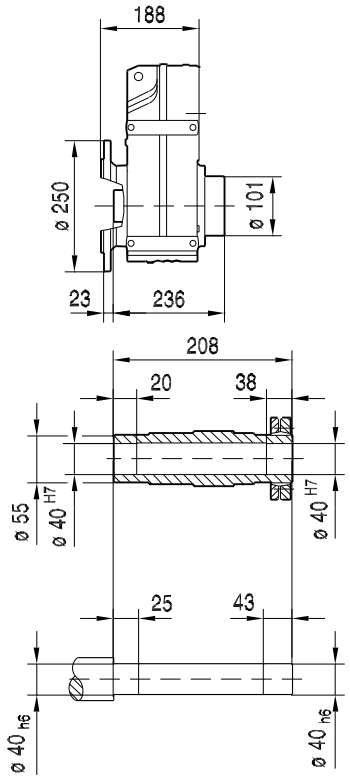
42 150 00 09



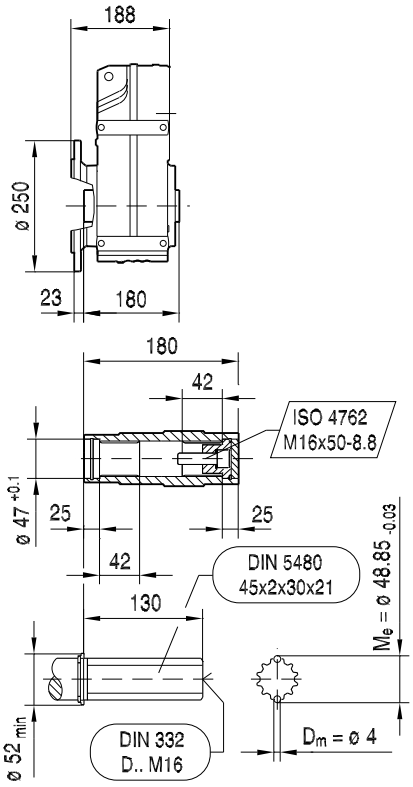
FAF67..



FHF67..
max. EDR100L/LC



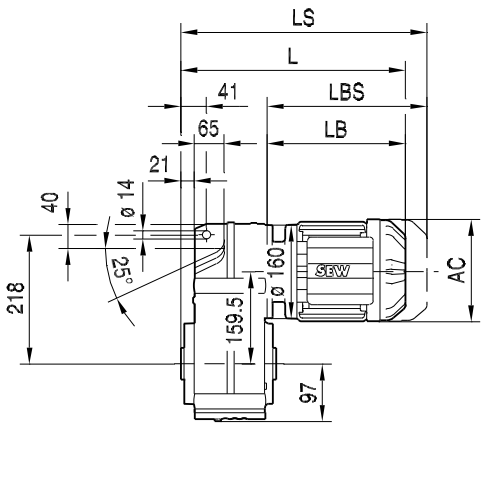
FVF67..

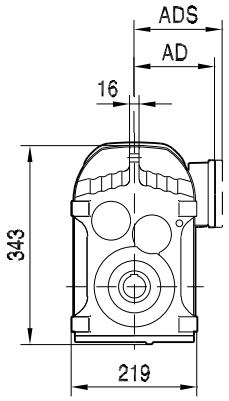


(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC
AC	132	139	139	156	156	179	179	197	197	221	221
AD	105	129	129	139	139	150	150	158	158	172	172
ADS	105	129	129	139	139	150	150	158	158	172	172
L	449	460	485	494	525	527	547	577	607	654	704
LS	504	528	553	575	606	620	640	670	700	766	816
LB	185	196	221	230	261	263	283	313	343	390	440
LBS	240	264	289	311	342	356	376	406	436	502	552

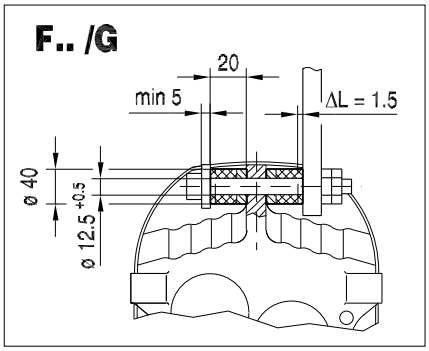
42 151 00 09

FA67..

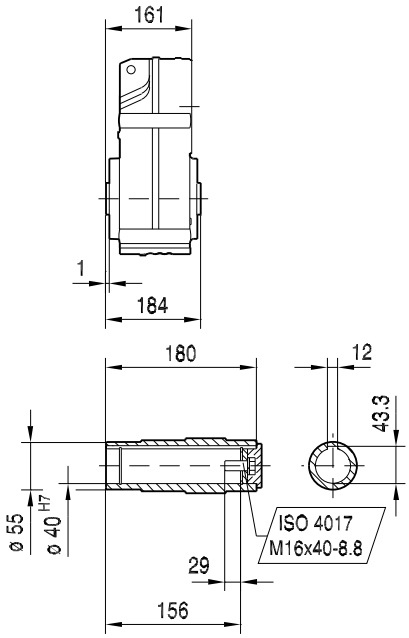




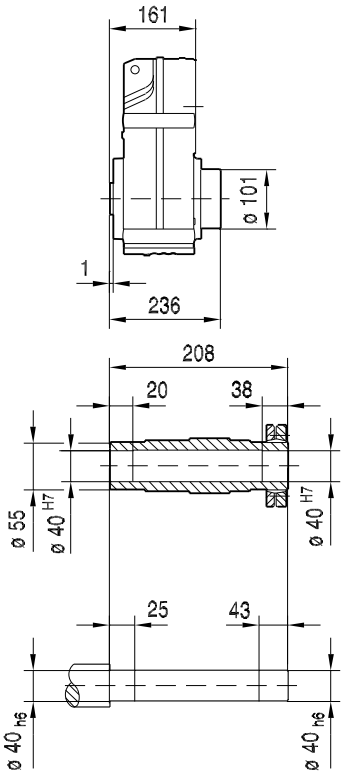
F.. /G



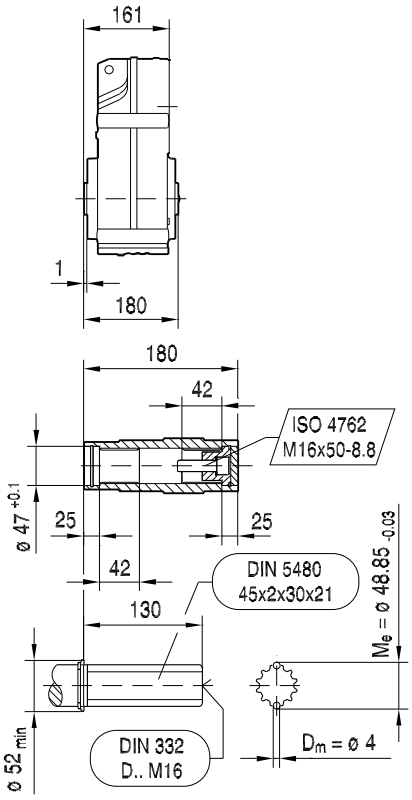
FA67..



FH67..
max. EDR100L/LC



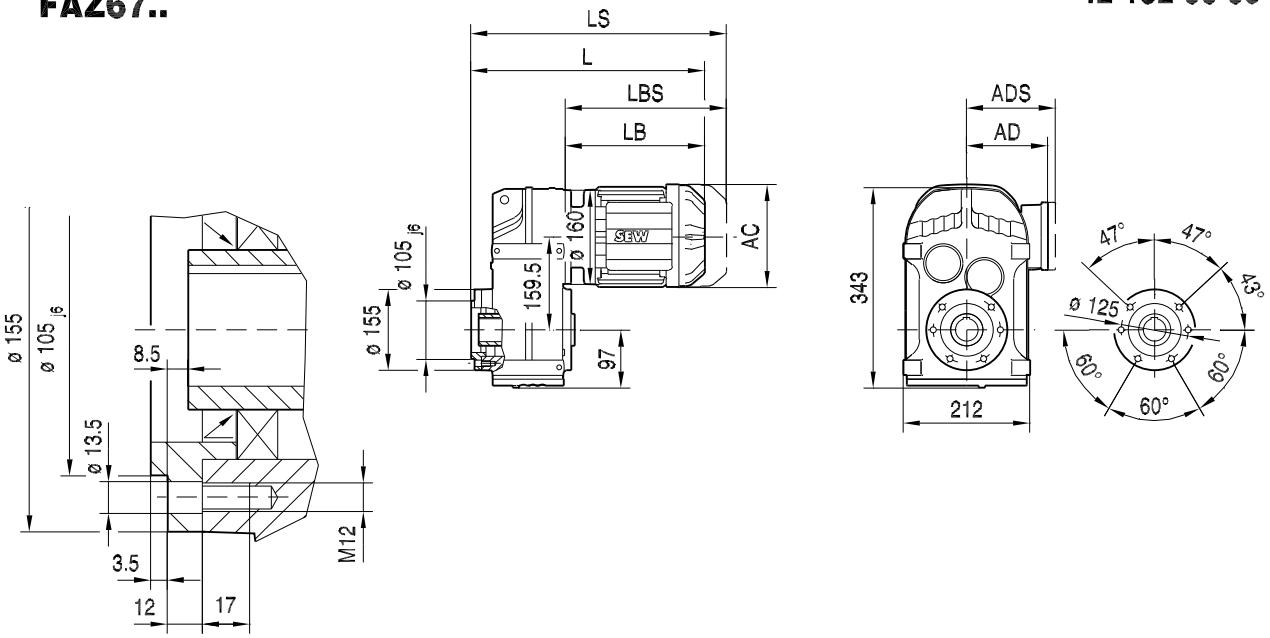
FV67..



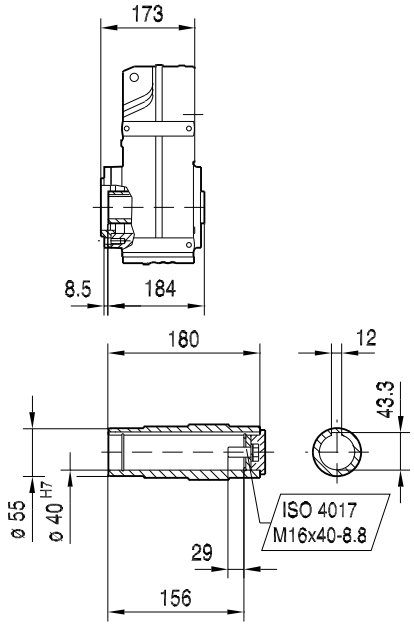
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC
AC	132	139	139	156	156	179	179	197	197	221	221
AD	105	129	129	139	139	150	150	158	158	172	172
ADS	105	129	129	139	139	150	150	158	158	172	172
L	346	357	382	391	422	424	444	474	504	551	601
LS	401	425	450	472	503	517	537	567	597	663	713
LB	185	196	221	230	261	263	283	313	343	390	440
LBS	240	264	289	311	342	356	376	406	436	502	552

42 152 00 09

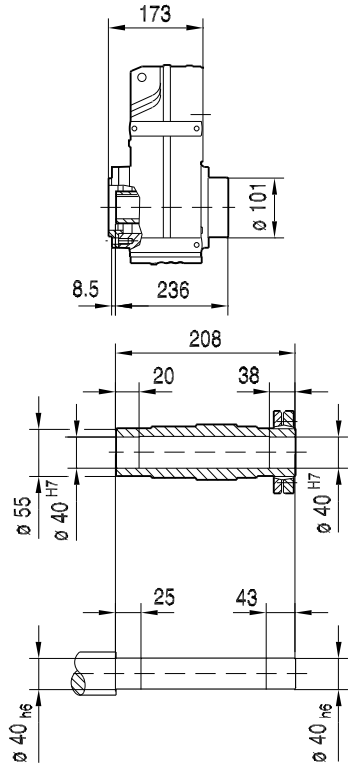
FAZ67..



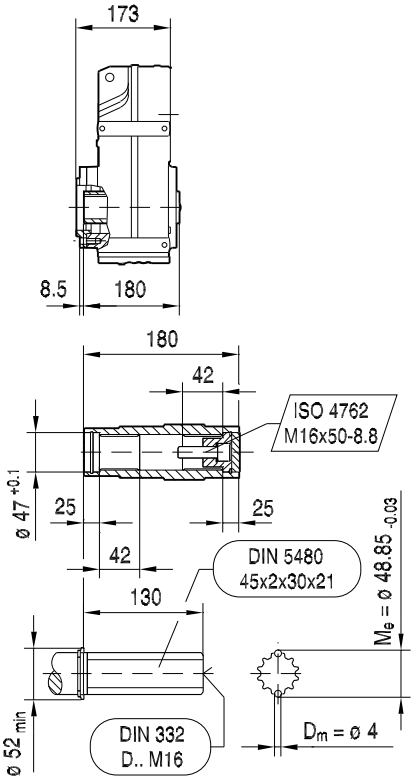
FAZ67..



FHZ67..
max. EDR100L/LC



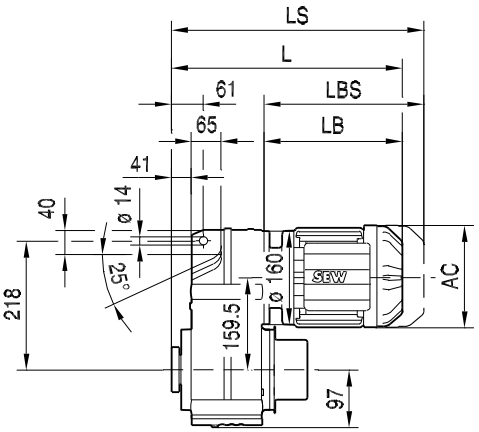
FVZ67..

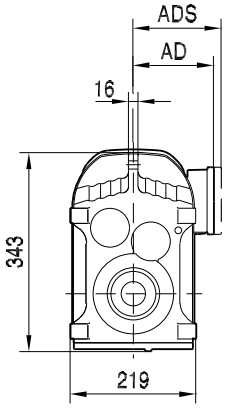


(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC
AC	132	139	139	156	156	179	179	197	197	221	221
AD	105	129	129	139	139	150	150	158	158	172	172
ADS	105	129	129	139	139	150	150	158	158	172	172
L	358	369	394	403	434	436	456	486	516	563	613
LS	413	437	462	484	515	529	549	579	609	675	725
LB	185	196	221	230	261	263	283	313	343	390	440
LBS	240	264	289	311	342	356	376	406	436	502	552

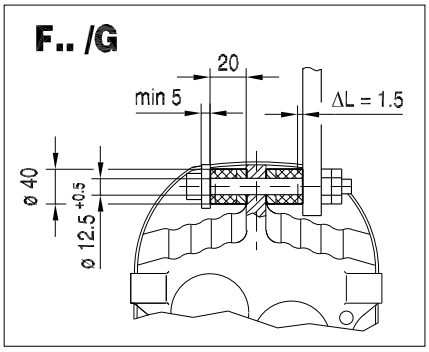
42 153 00 09

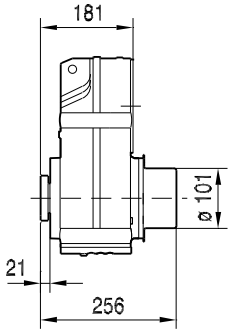
FT67..

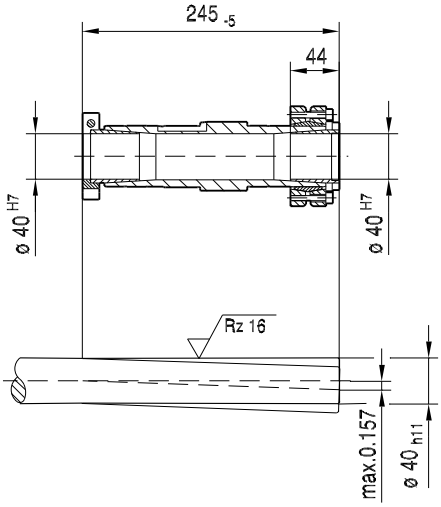


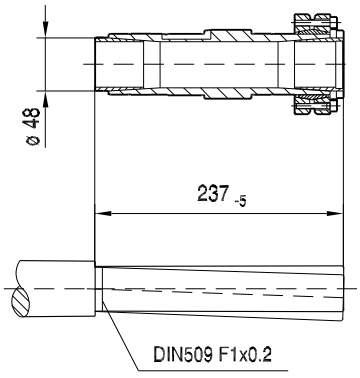


F.. /G





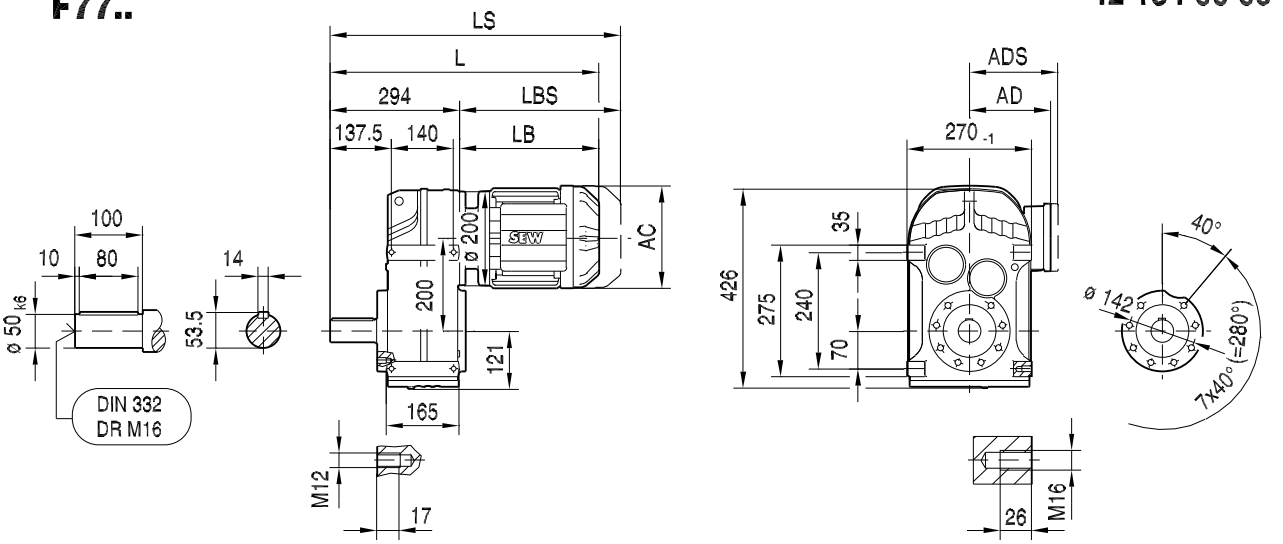




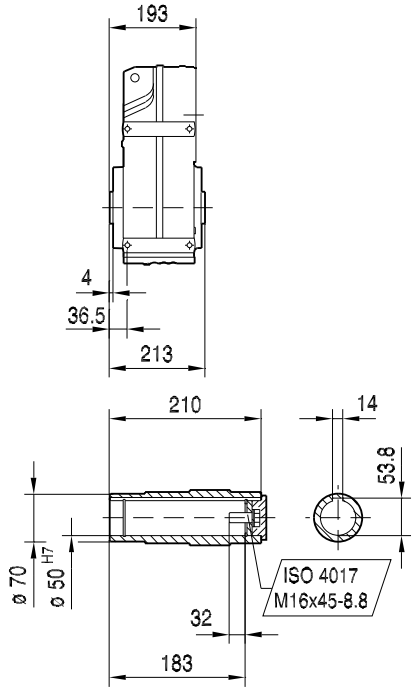
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	366	377	402	412	443	444	464	494	524
LS	421	445	470	493	524	537	557	587	617
LB	185	196	221	230	261	263	283	313	343
LBS	240	264	289	311	342	356	376	406	436

42 154 00 09

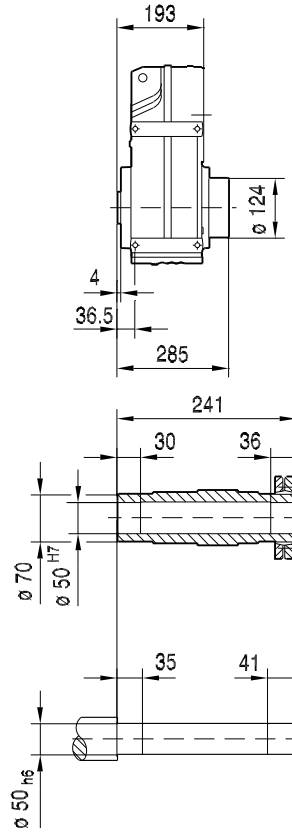
F77..



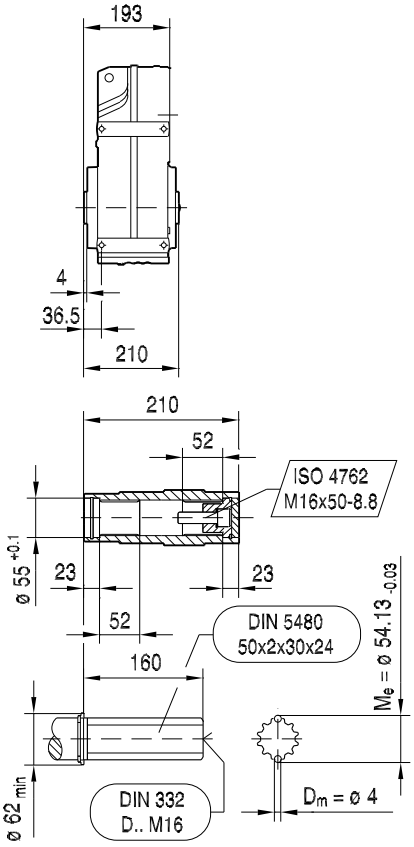
FA77B..



FH77B..
max. EDR132M/MC



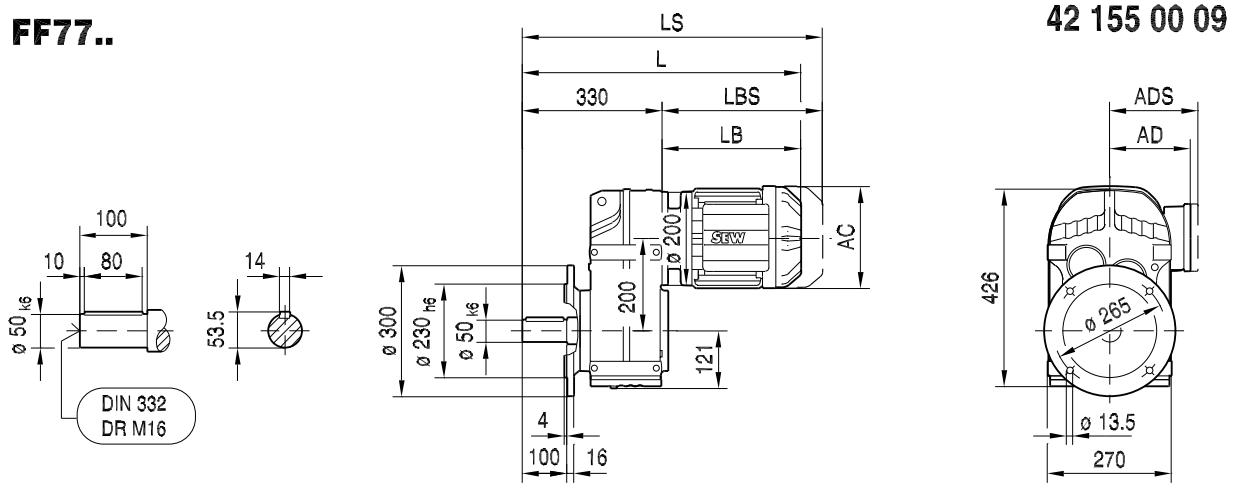
FV77B..



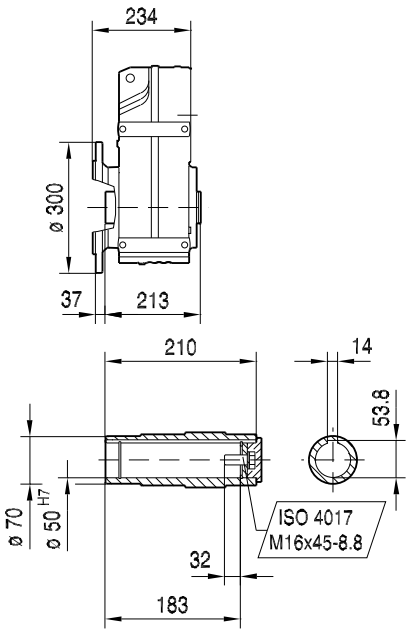
(→ 127)	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..
AC	139	156	156	179	179	197	197	221	221	270
AD	129	139	139	150	150	158	158	172	172	228
ADS	129	139	139	150	150	158	158	172	172	228
L	508	517	548	550	570	600	630	673	723	764
LS	576	598	629	643	663	693	723	785	835	901
LB	214	223	254	256	276	306	336	379	429	470
LBS	282	304	335	349	369	399	429	491	541	607

FF77..

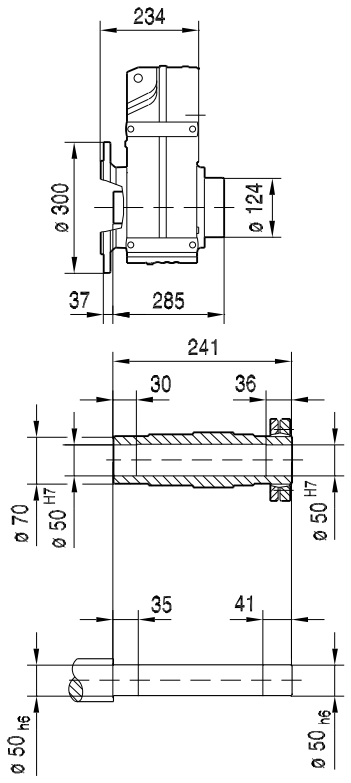
42 155 00 09



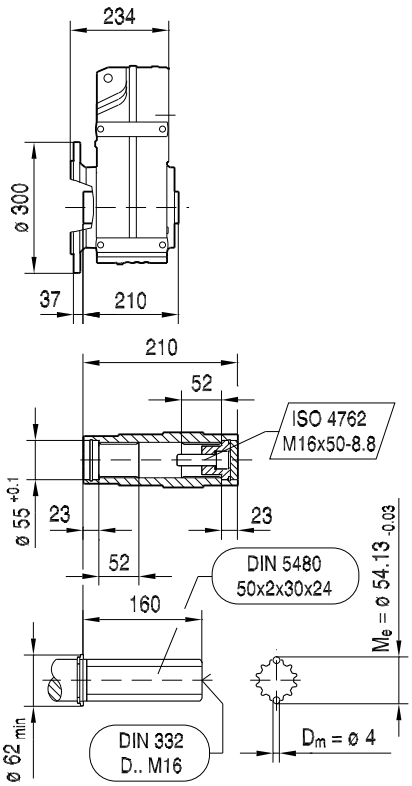
FAF77..



FHF77..
max. EDR132M/MC



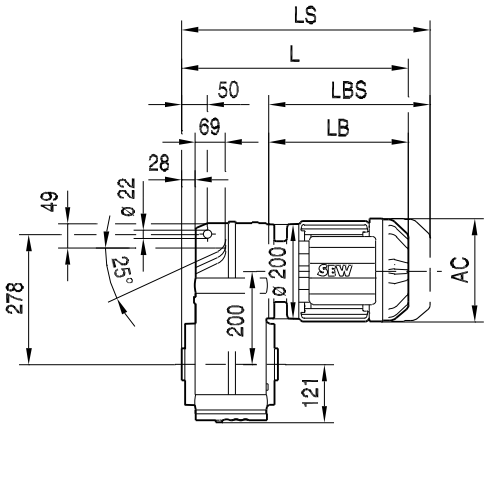
FVF77..

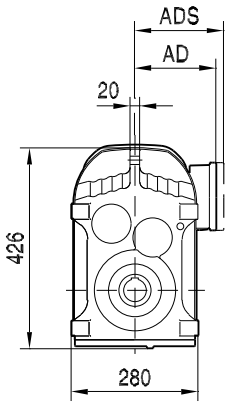


(→ 127)	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..
AC	139	156	156	179	179	197	197	221	221	270
AD	129	139	139	150	150	158	158	172	172	228
ADS	129	139	139	150	150	158	158	172	172	228
L	544	553	584	586	606	636	666	709	759	800
LS	612	634	665	679	699	729	759	821	871	937
LB	214	223	254	256	276	306	336	379	429	470
LBS	282	304	335	349	369	399	429	491	541	607

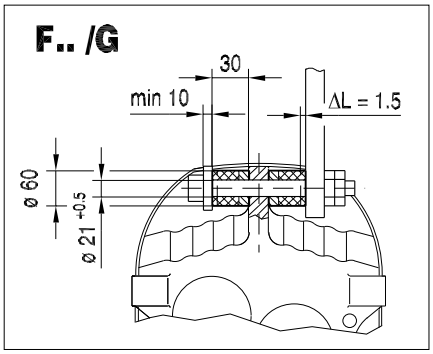
42 156 00 09

FA77..

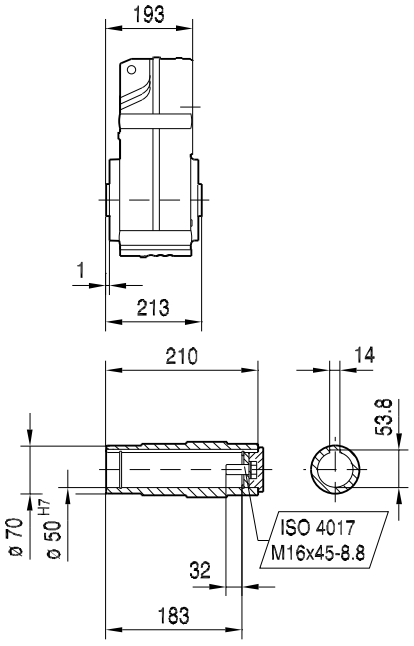




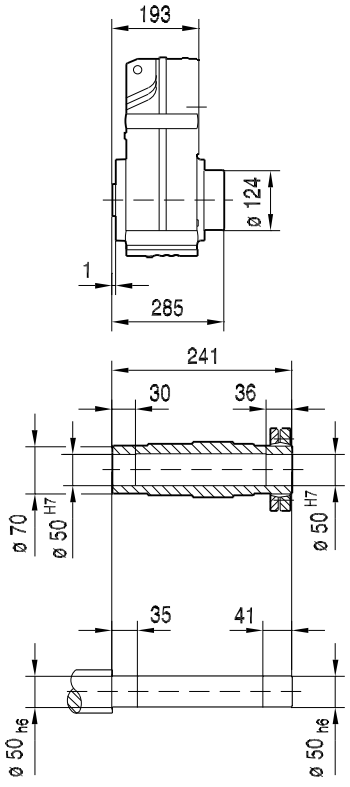
F.. /G



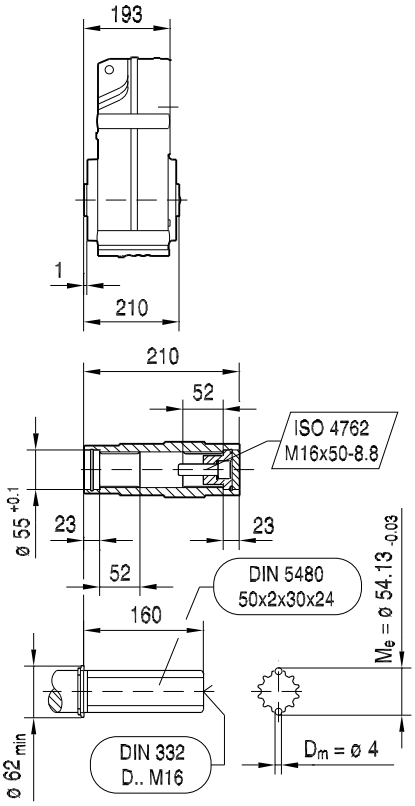
FA77..



FH77..
max. EDR132M/MC



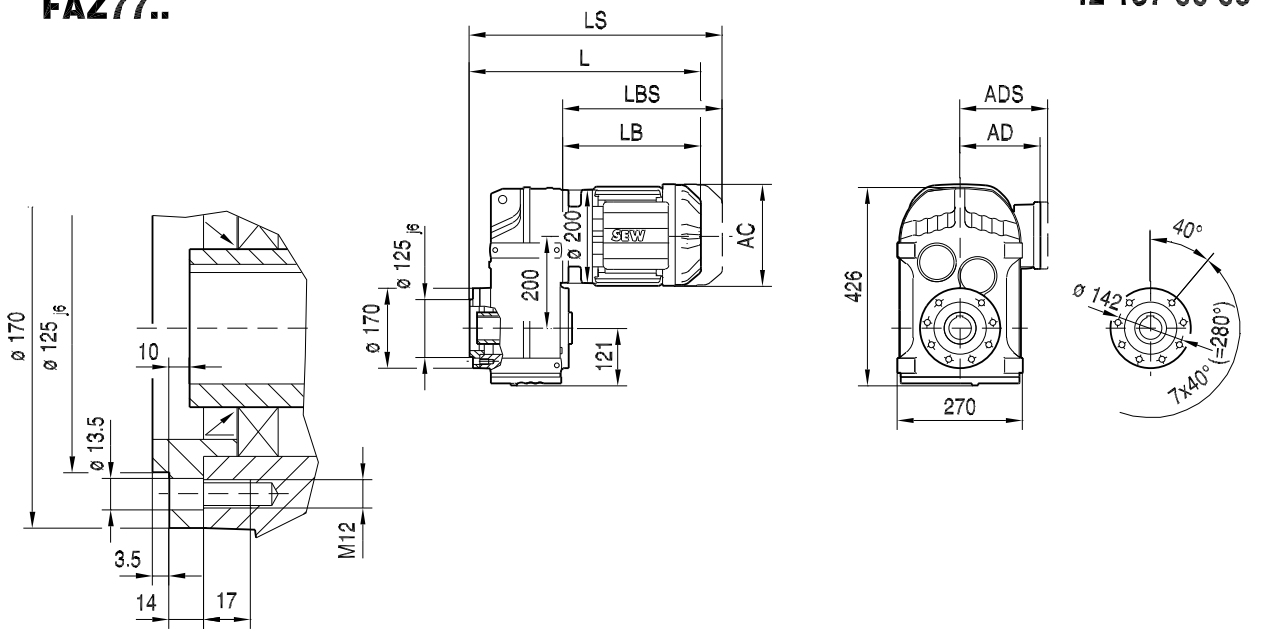
FV77..



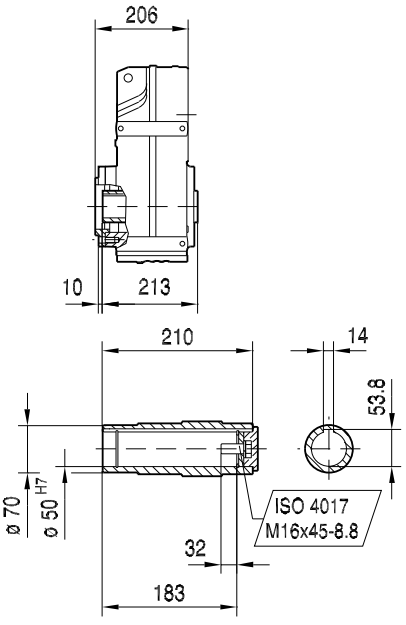
(→ 127)	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..
AC	139	156	156	179	179	197	197	221	221	270
AD	129	139	139	150	150	158	158	172	172	228
ADS	129	139	139	150	150	158	158	172	172	228
L	407	416	447	449	469	499	529	572	622	663
LS	475	497	528	542	562	592	622	684	734	800
LB	214	223	254	256	276	306	336	379	429	470
LBS	282	304	335	349	369	399	429	491	541	607

42 157 00 09

FAZ77..

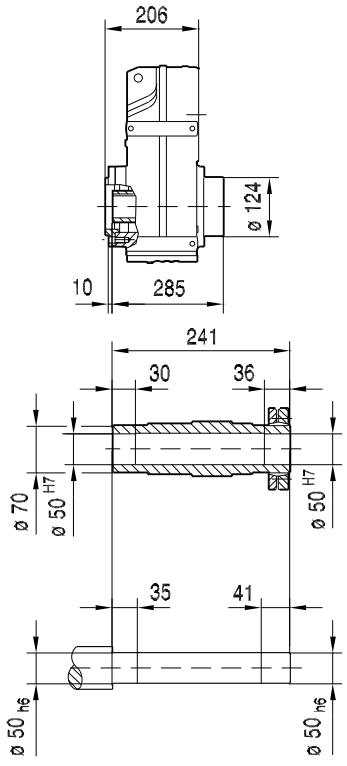


FAZ77..

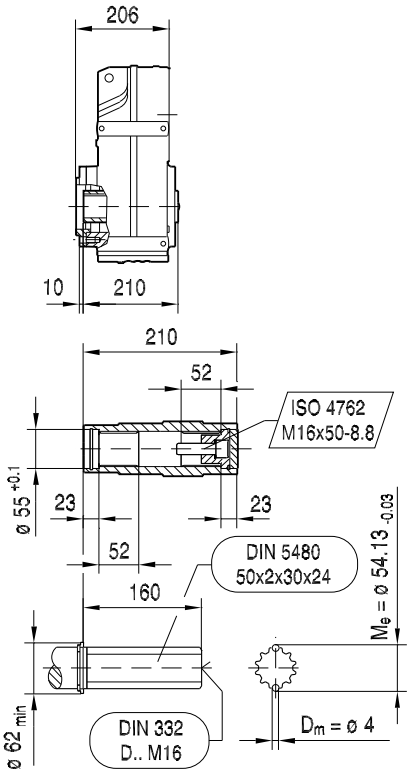


FHZ77..

max. EDR132M/MC



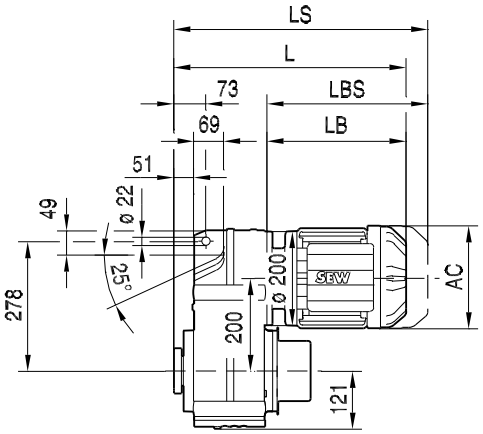
FVZ77..

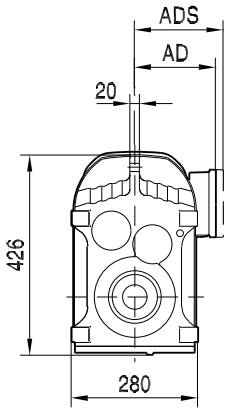


(→ 127)	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..
AC	139	156	156	179	179	197	197	221	221	270
AD	129	139	139	150	150	158	158	172	172	228
ADS	129	139	139	150	150	158	158	172	172	228
L	420	429	460	462	482	512	542	585	635	676
LS	488	510	541	555	575	605	635	697	747	813
LB	214	223	254	256	276	306	336	379	429	470
LBS	282	304	335	349	369	399	429	491	541	607

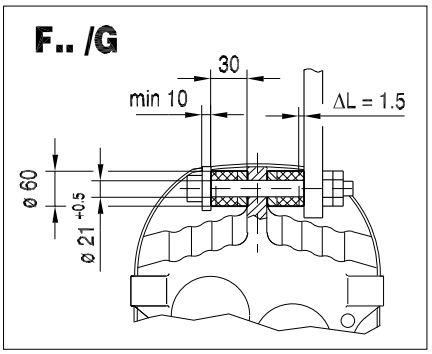
42 158 00 09

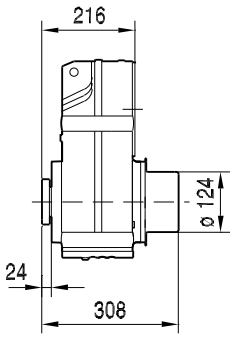
FT77..

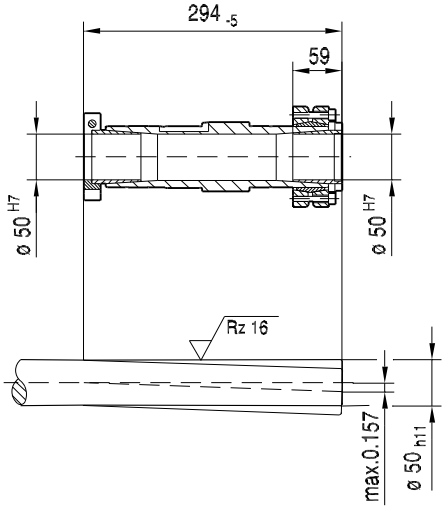


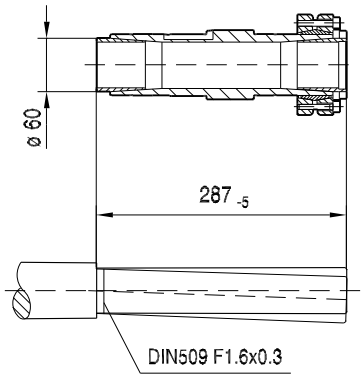


F.. /G





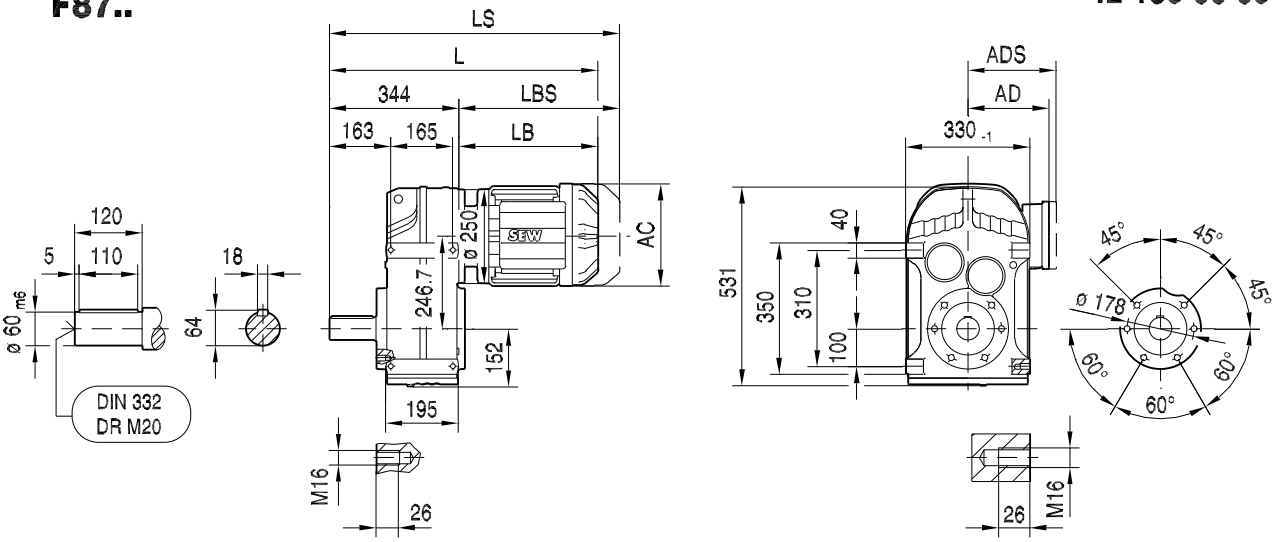




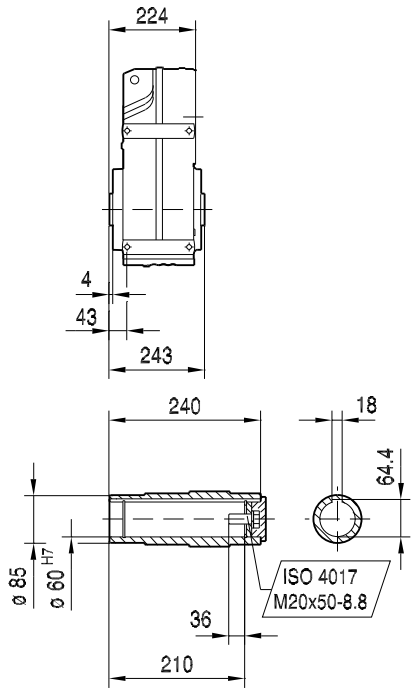
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC
AC	132	139	139	156	156	179	179	197	197	221	221
AD	105	129	129	139	139	150	150	158	158	172	172
ADS	105	129	129	139	139	150	150	158	158	172	172
L	394	405	430	439	470	472	492	522	552	595	645
LS	449	473	498	520	551	565	585	615	645	707	757
LB	178	189	214	223	254	256	276	306	336	379	429
LBS	233	257	282	304	335	349	369	399	429	491	541

42 159 00 09

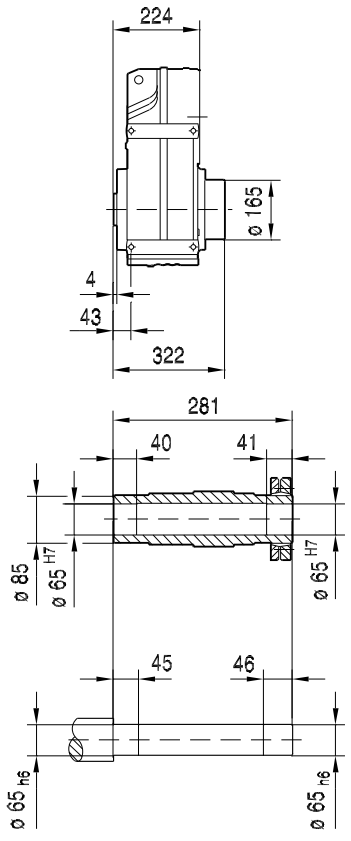
F87..



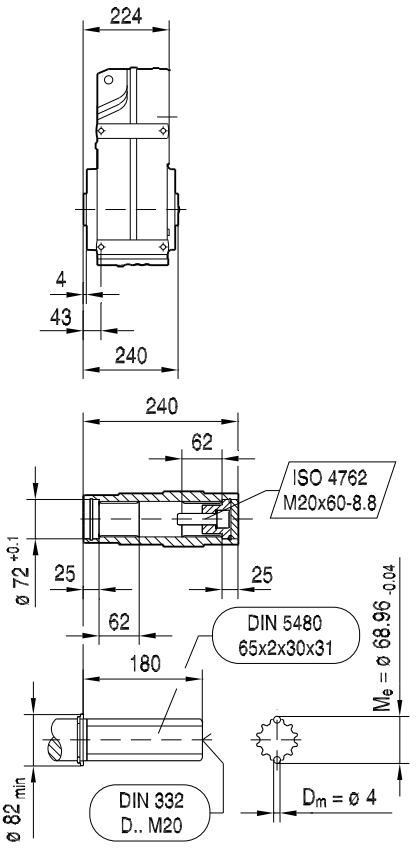
FA87B..



FH87B..

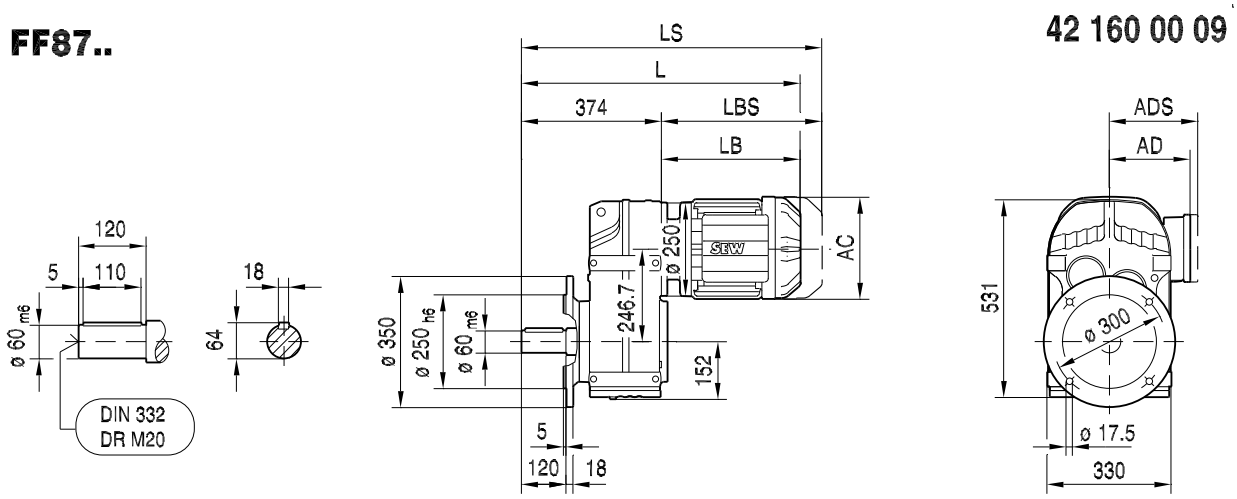


FV87B..

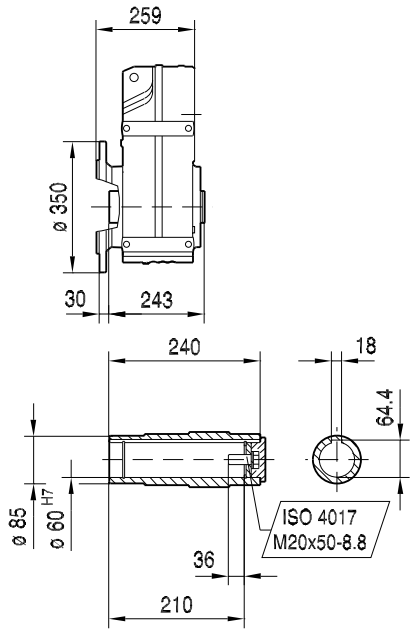


(→ 127)	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC
AC	156	179	179	197	197	221	221	270	316	316
AD	139	150	150	158	158	172	172	228	253	253
ADS	139	150	150	158	158	172	172	228	253	253
L	593	595	615	645	675	718	768	809	878	938
LS	674	688	708	738	768	830	880	946	1067	1127
LB	249	251	271	301	331	374	424	465	534	594
LBS	330	344	364	394	424	486	536	602	723	783

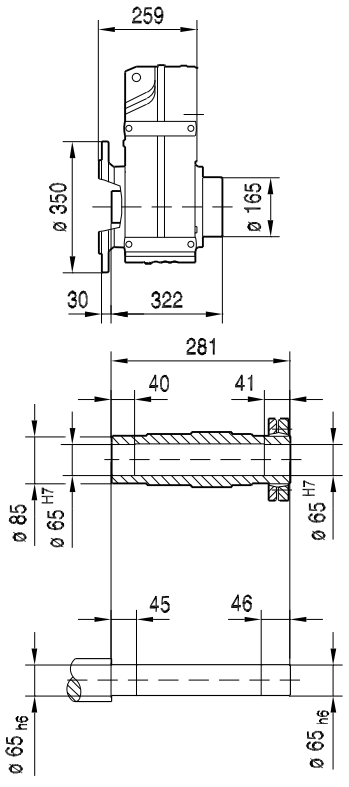
FF87..



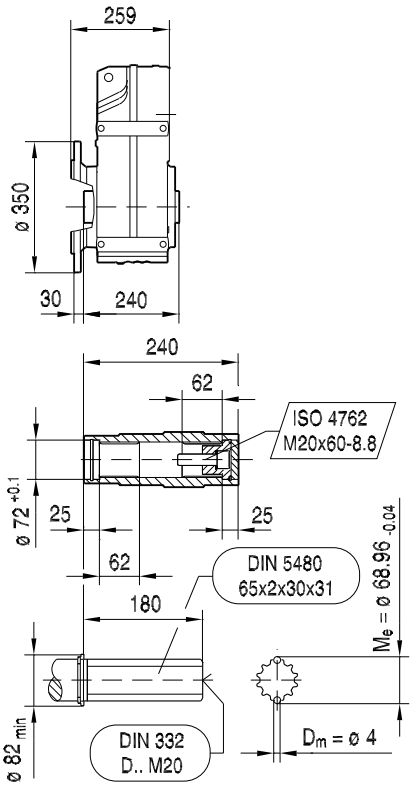
FAF87..



FHF87..



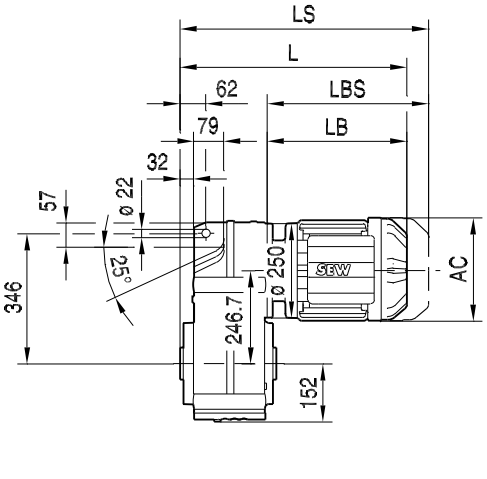
FVF87..

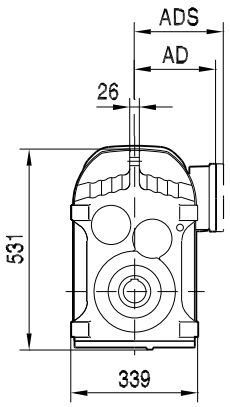


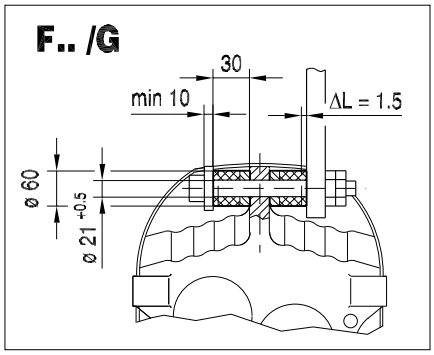
(→ 127)	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC
AC	156	179	179	197	197	221	221	270	316	316
AD	139	150	150	158	158	172	172	228	253	253
ADS	139	150	150	158	158	172	172	228	253	253
L	623	625	645	675	705	748	798	839	908	968
LS	704	718	738	768	798	860	910	976	1097	1157
LB	249	251	271	301	331	374	424	465	534	594
LBS	330	344	364	394	424	486	536	602	723	783

42 161 00 09

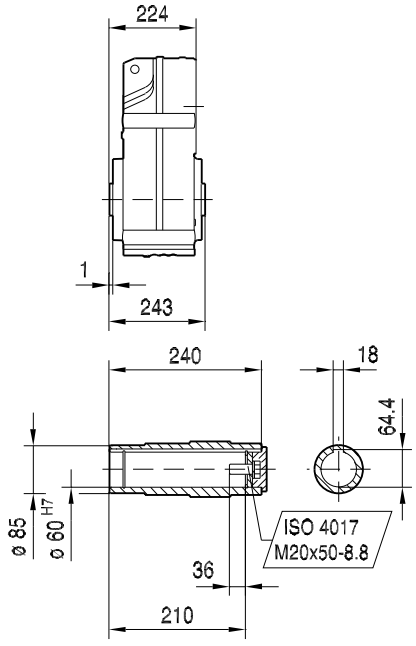
FA87..



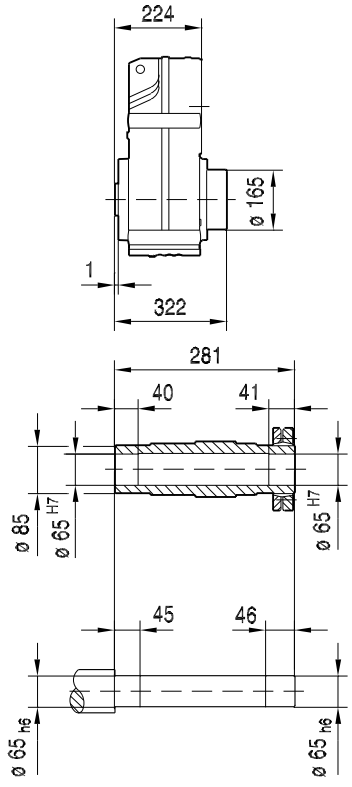




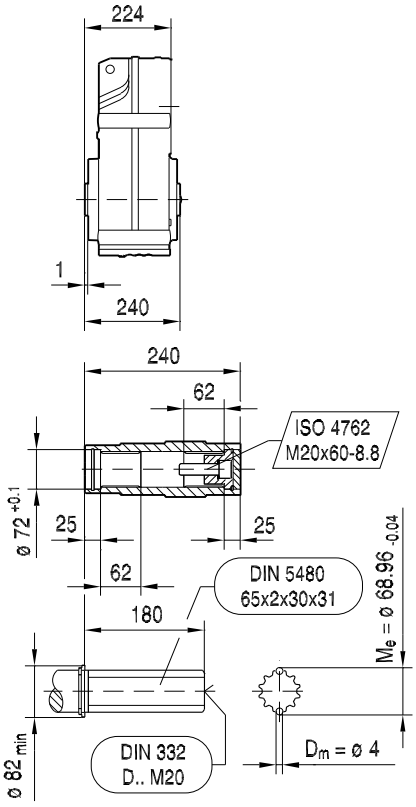
FA87..



FH87..



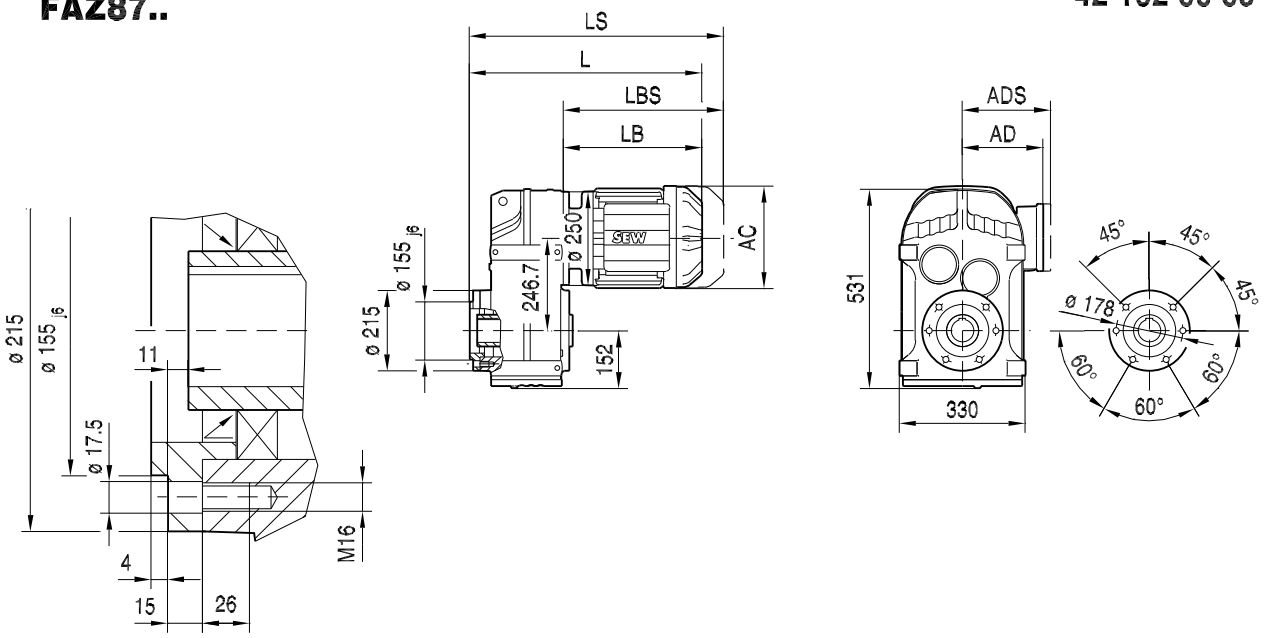
FV87..



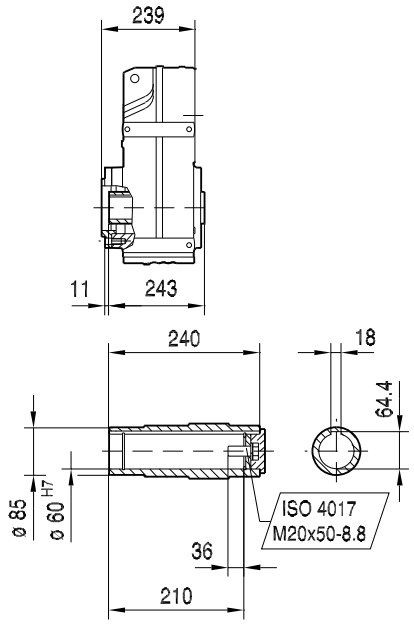
(→ 127)	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC
AC	156	179	179	197	197	221	221	270	316	316
AD	139	150	150	158	158	172	172	228	253	253
ADS	139	150	150	158	158	172	172	228	253	253
L	473	475	495	525	555	598	648	689	758	818
LS	554	568	588	618	648	710	760	826	947	1007
LB	249	251	271	301	331	374	424	465	534	594
LBS	330	344	364	394	424	486	536	602	723	783

42 162 00 09

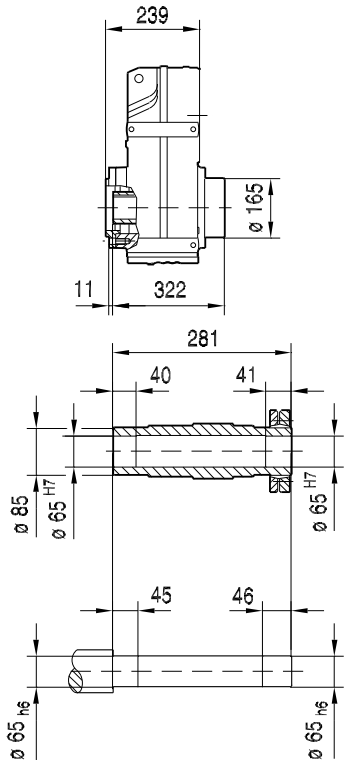
FAZ87..



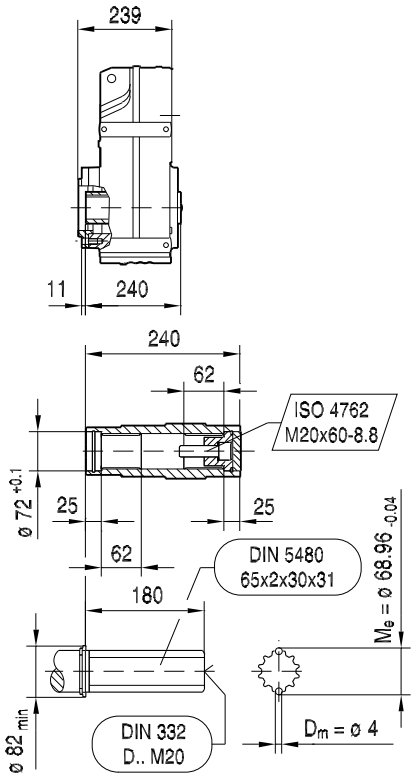
FAZ87..



FHZ87..



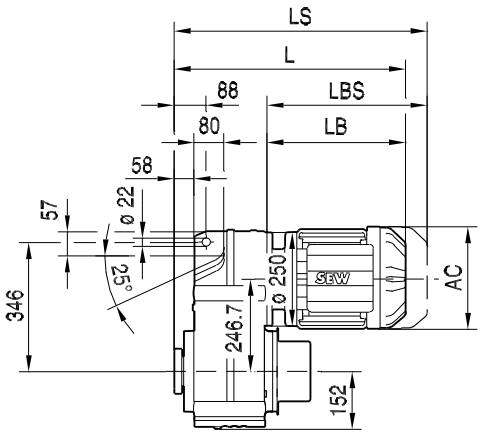
FVZ87..

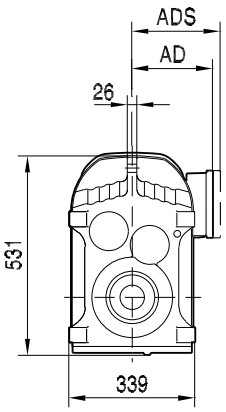


(→ 127)	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC
AC	156	179	179	197	197	221	221	270	316	316
AD	139	150	150	158	158	172	172	228	253	253
ADS	139	150	150	158	158	172	172	228	253	253
L	488	490	510	540	570	613	663	704	773	833
LS	569	583	603	633	663	725	775	841	962	1022
LB	249	251	271	301	331	374	424	465	534	594
LBS	330	344	364	394	424	486	536	602	723	783

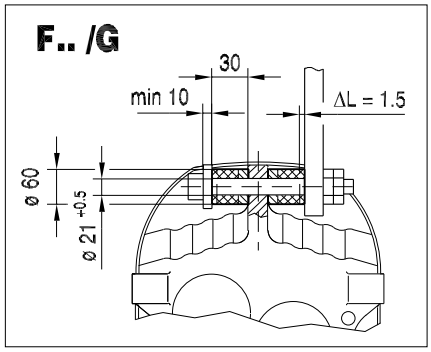
42 163 00 09

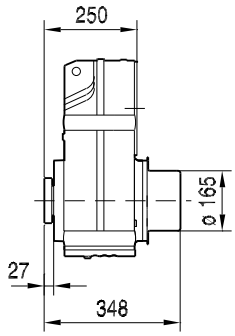
FT87..

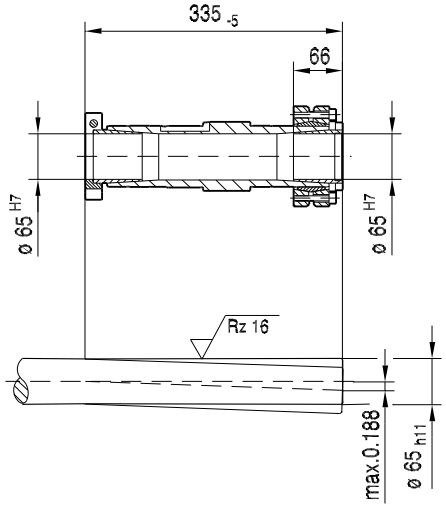


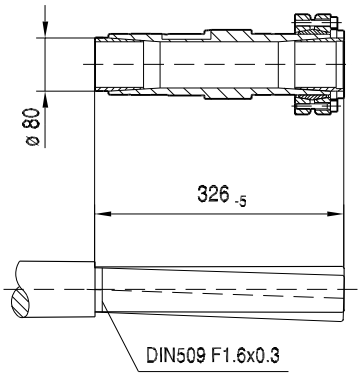


F.. /G





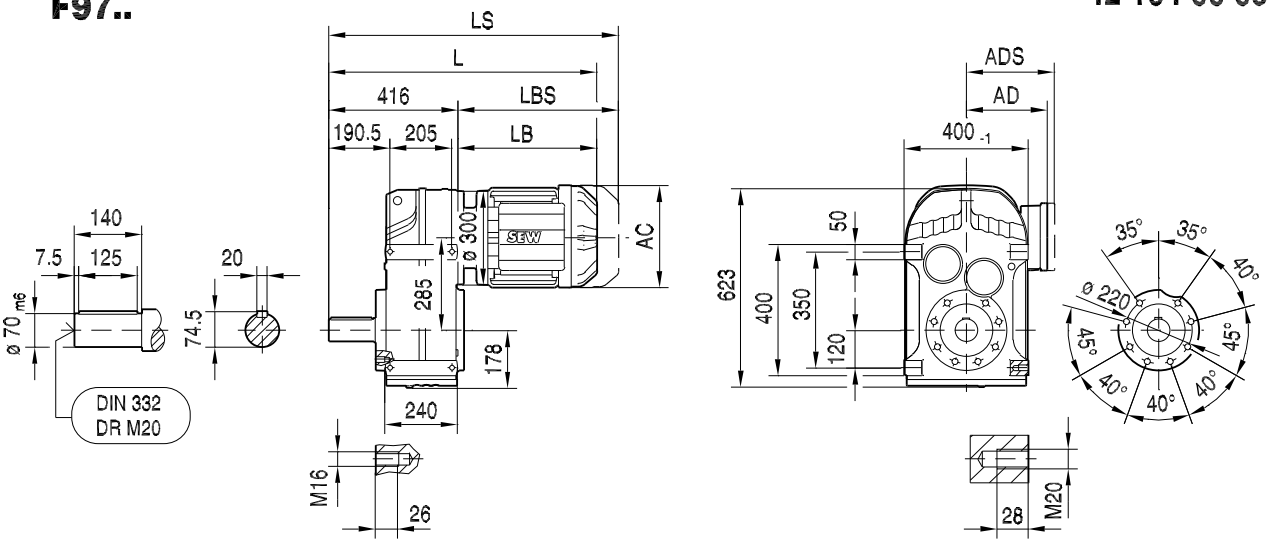




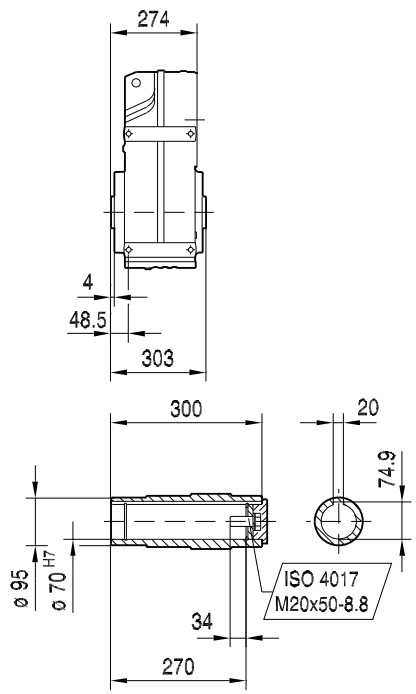
(→ 127)	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC
AC	156	179	179	197	197	221	221	270	316	316
AD	139	150	150	158	158	172	172	228	253	253
ADS	139	150	150	158	158	172	172	228	253	253
L	499	501	521	551	581	624	674	715	784	844
LS	580	594	614	644	674	736	786	852	973	1033
LB	249	251	271	301	331	374	424	465	534	594
LBS	330	344	364	394	424	486	536	602	723	783

F97..

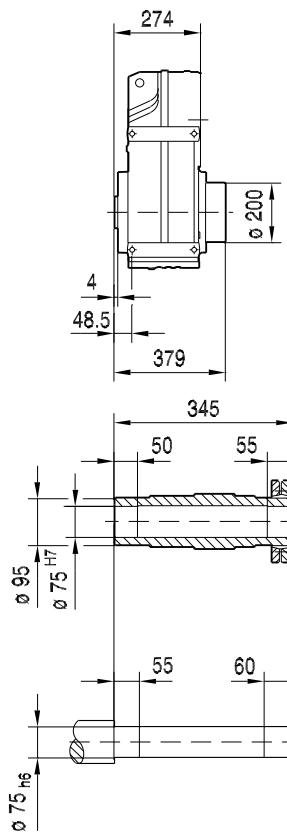
42 164 00 09



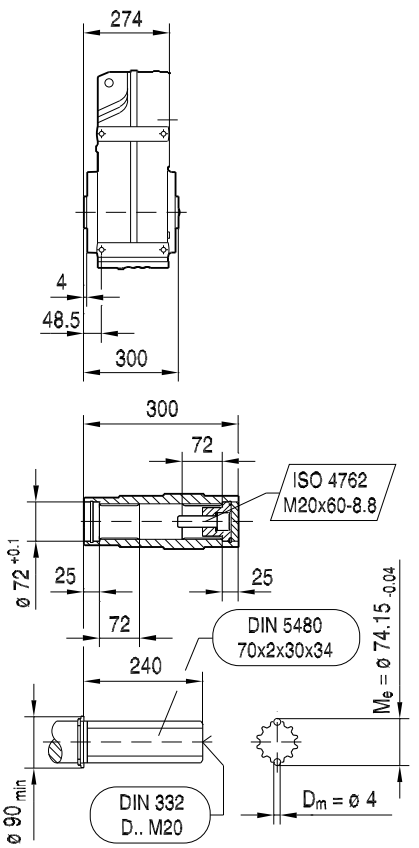
FA97B..



FH97B..
max. EDR180L/LC

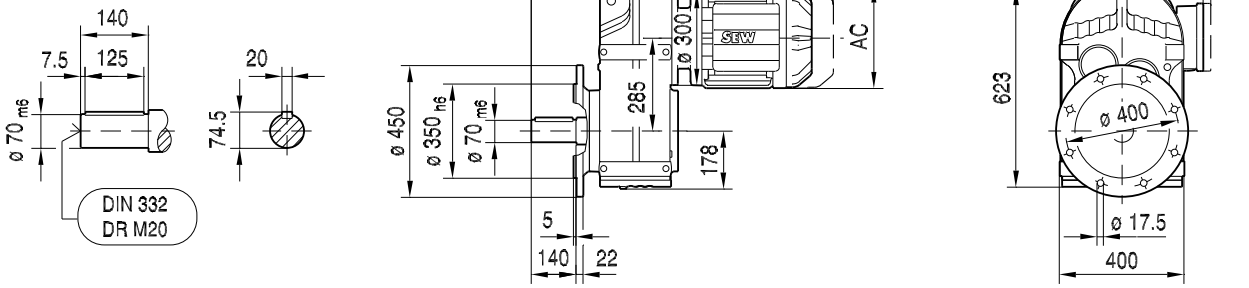


FV97B..

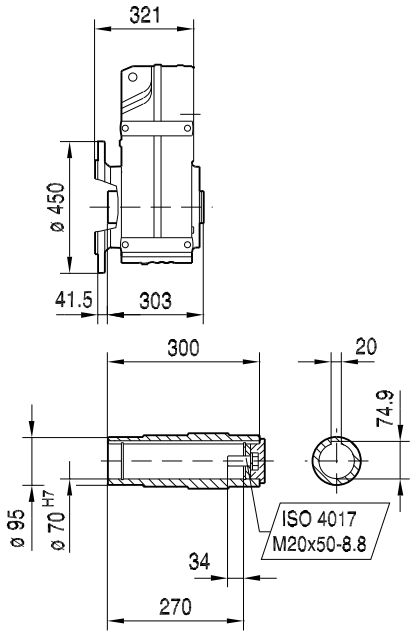


(→ 127)	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S
AC	179	197	197	221	221	270	316	316	394	394
AD	150	158	158	172	172	228	253	253	283	283
ADS	150	158	158	172	172	228	253	253	283	283
L	682	712	742	785	835	876	945	1005	1078	1078
LS	775	805	835	897	947	1013	1134	1194	1283	1283
LB	266	296	326	369	419	460	529	589	662	662
LBS	359	389	419	481	531	597	718	778	867	867

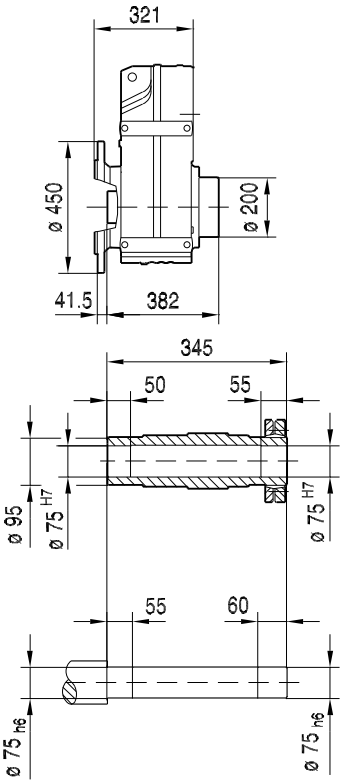
FF97..



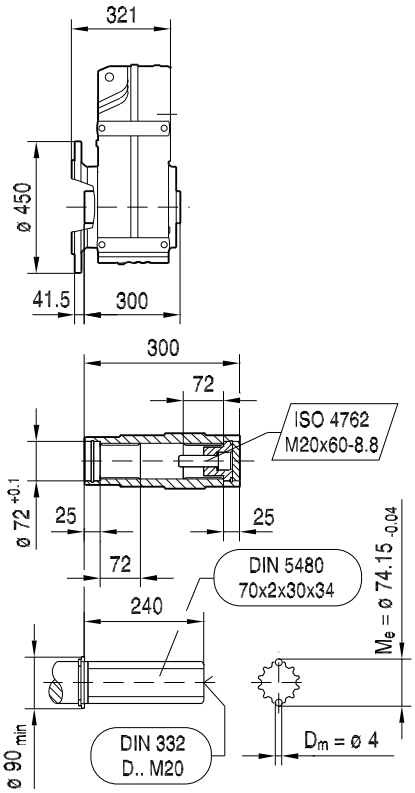
FAF97..



FHF97..
max. EDR180L/LC



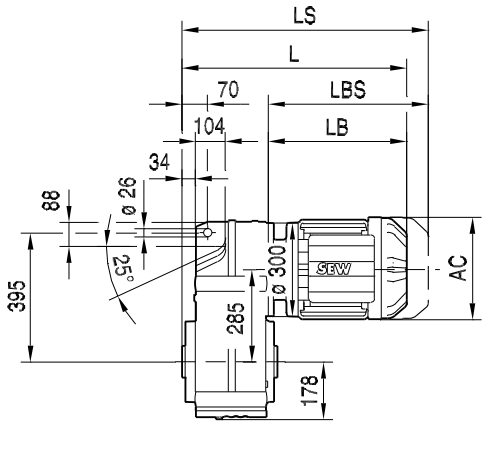
FVF97..

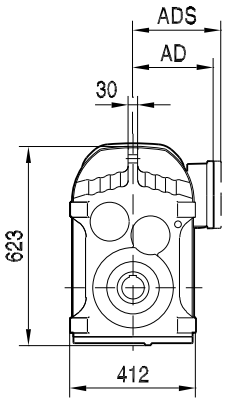


(→ 127)	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S
AC	179	197	197	221	221	270	316	316	394	394
AD	150	158	158	172	172	228	253	253	283	283
ADS	150	158	158	172	172	228	253	253	283	283
L	722	752	782	825	875	916	985	1045	1118	1118
LS	815	845	875	937	987	1053	1174	1234	1323	1323
LB	266	296	326	369	419	460	529	589	662	662
LBS	359	389	419	481	531	597	718	778	867	867

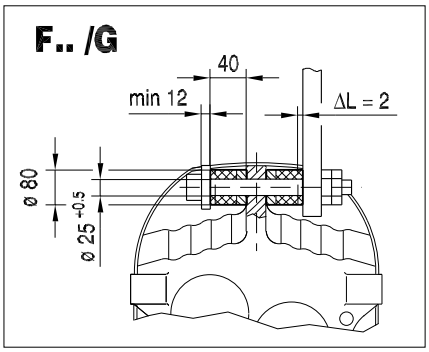
42 166 00 09

FA97..

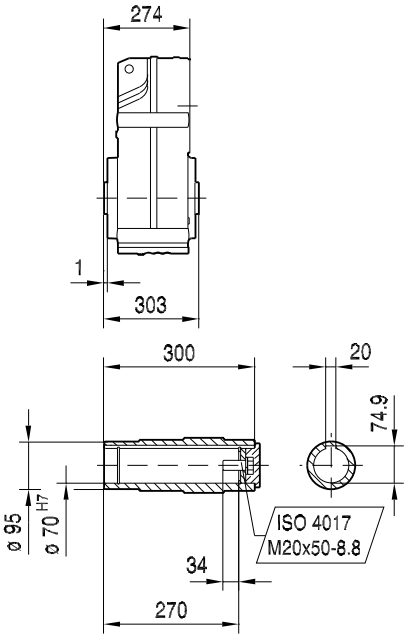




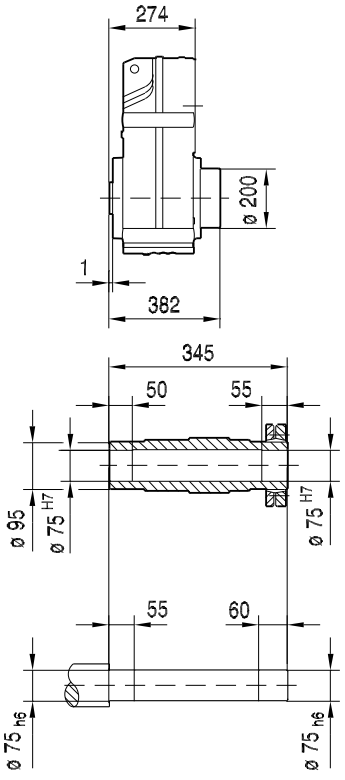
F.. /G



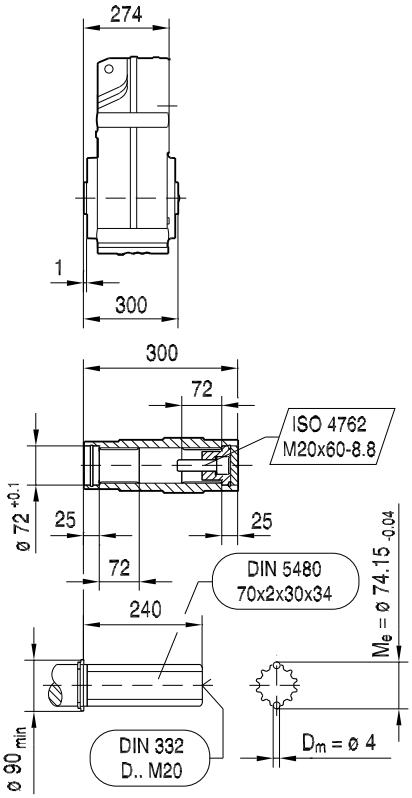
FA97..



FH97..
max. EDR180L/LC



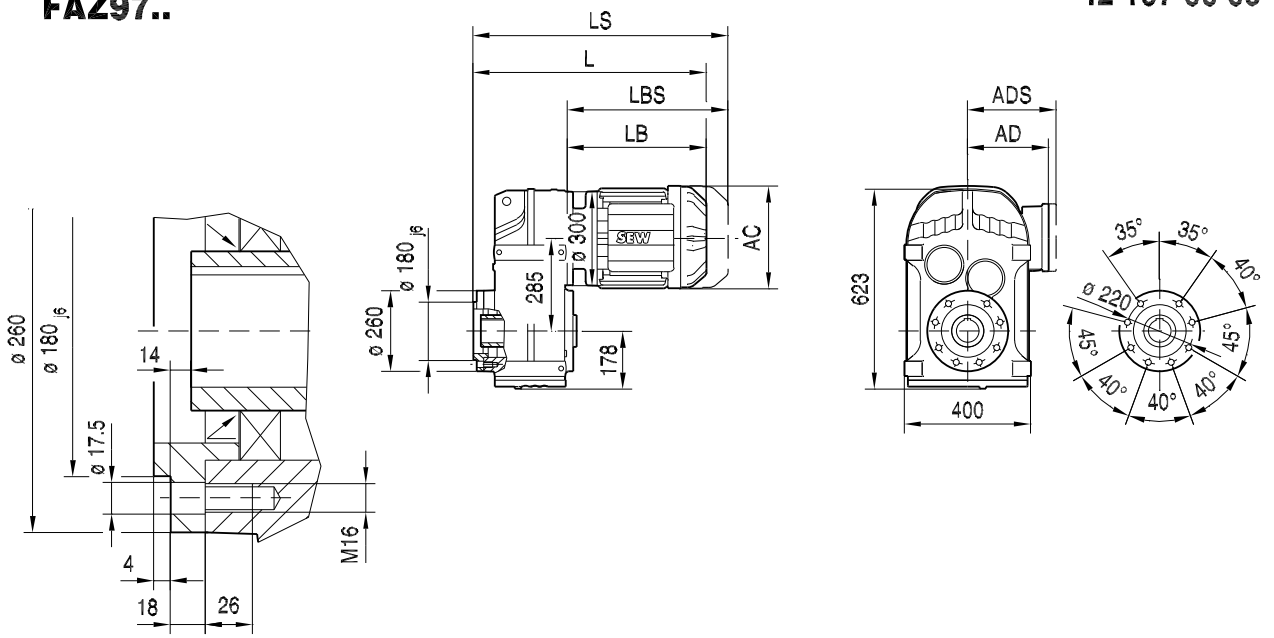
FV97..



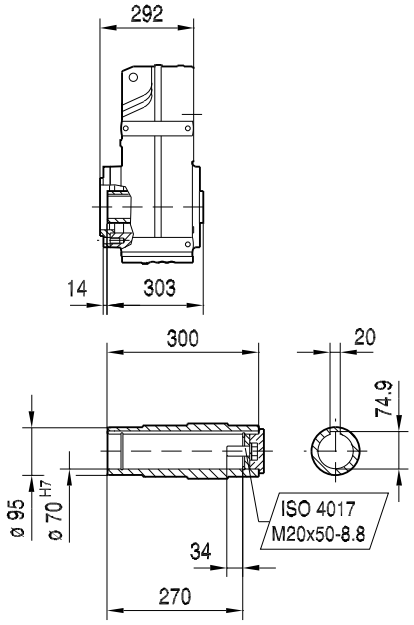
(→ 127)	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S
AC	179	197	197	221	221	270	316	316	394	394
AD	150	158	158	172	172	228	253	253	283	283
ADS	150	158	158	172	172	228	253	253	283	283
L	540	570	600	643	693	734	803	863	936	936
LS	633	663	693	755	805	871	992	1052	1141	1141
LB	266	296	326	369	419	460	529	589	662	662
LBS	359	389	419	481	531	597	718	778	867	867

42 167 00 09

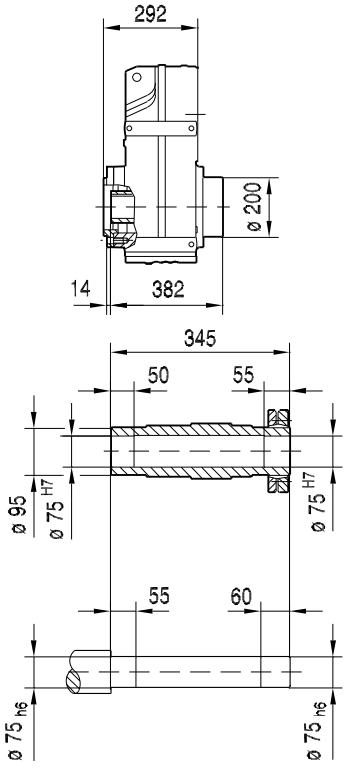
FAZ97..



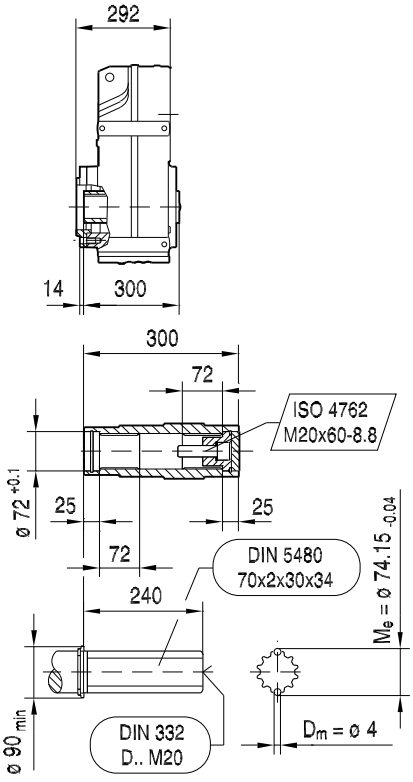
FAZ97..



FHZ97..
max. EDR180L/LC



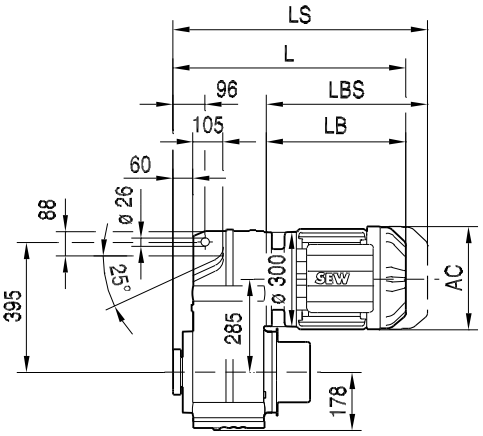
FVZ97..

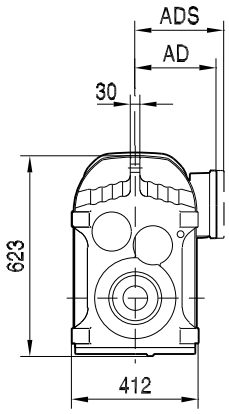


(→ 127)	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S
AC	179	197	197	221	221	270	316	316	394	394
AD	150	158	158	172	172	228	253	253	283	283
ADS	150	158	158	172	172	228	253	253	283	283
L	558	588	618	661	711	752	821	881	954	954
LS	651	681	711	773	823	889	1010	1070	1159	1159
LB	266	296	326	369	419	460	529	589	662	662
LBS	359	389	419	481	531	597	718	778	867	867

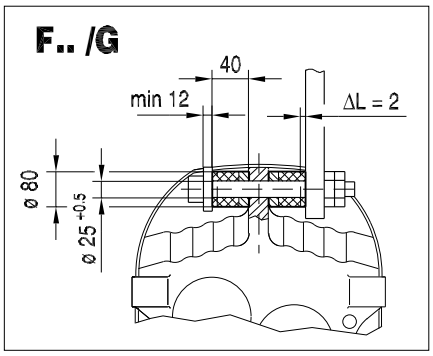
FT97..

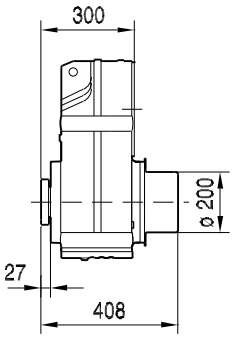
42 168 00 09

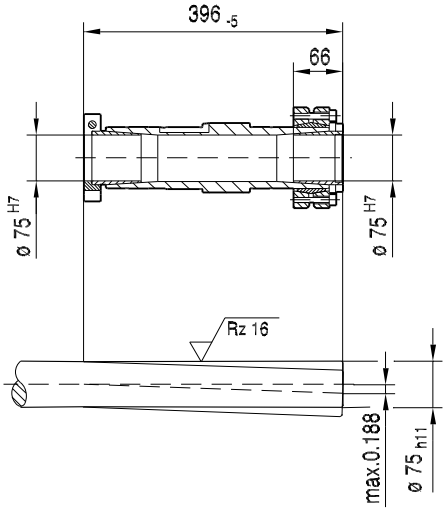


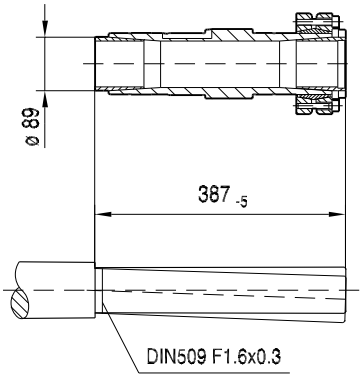


F.. /G





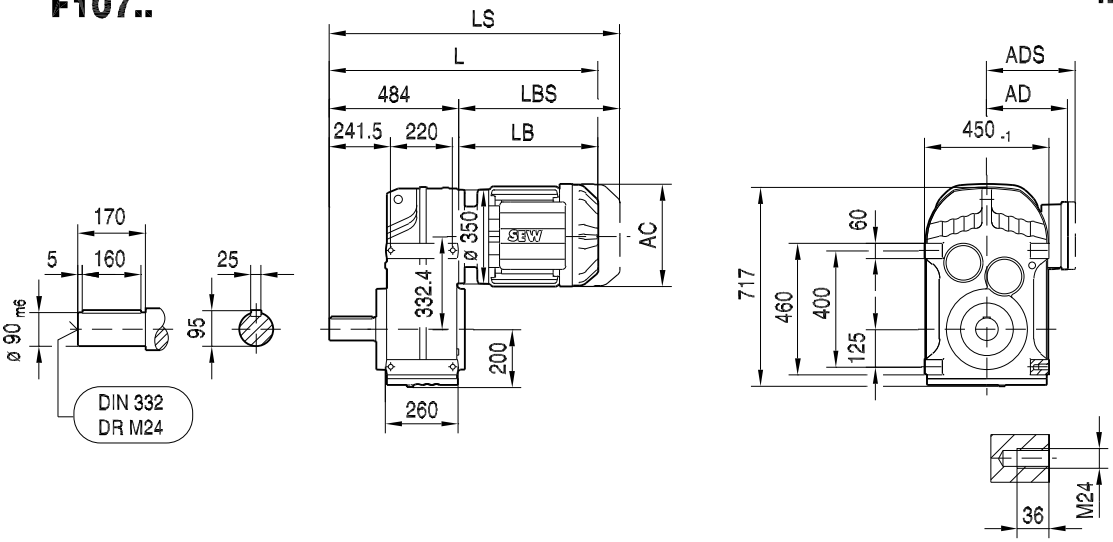




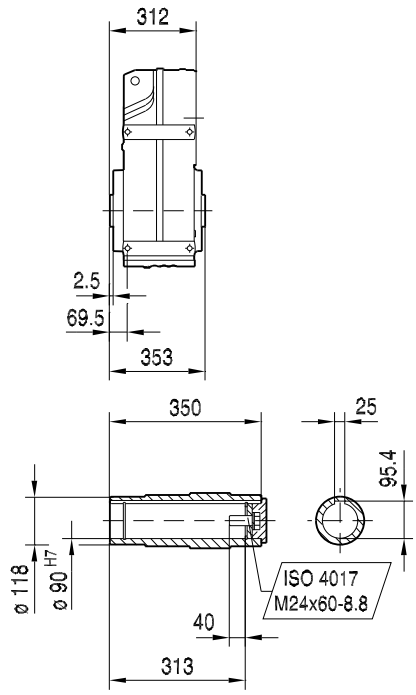
(→ 127)	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC
AC	156	179	179	197	197	221	221	270	316	316
AD	139	150	150	158	158	172	172	228	253	253
ADS	139	150	150	158	158	172	172	228	253	253
L	544	546	566	596	626	669	719	760	829	889
LS	625	639	659	689	719	781	831	897	1018	1078
LB	244	246	266	296	326	369	419	460	529	589
LBS	325	339	359	389	419	481	531	597	718	778

42 169 00 09

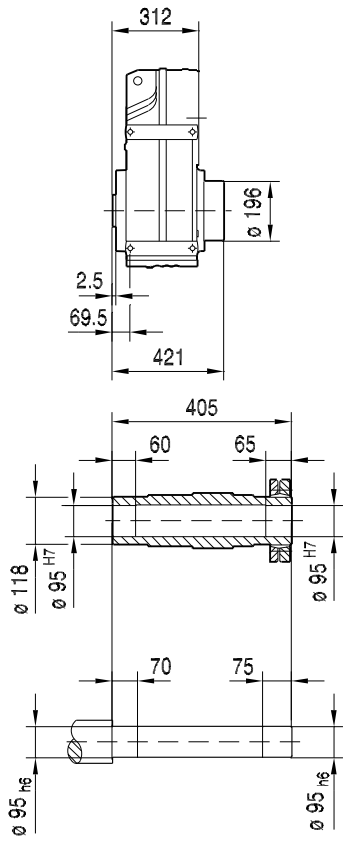
F107..



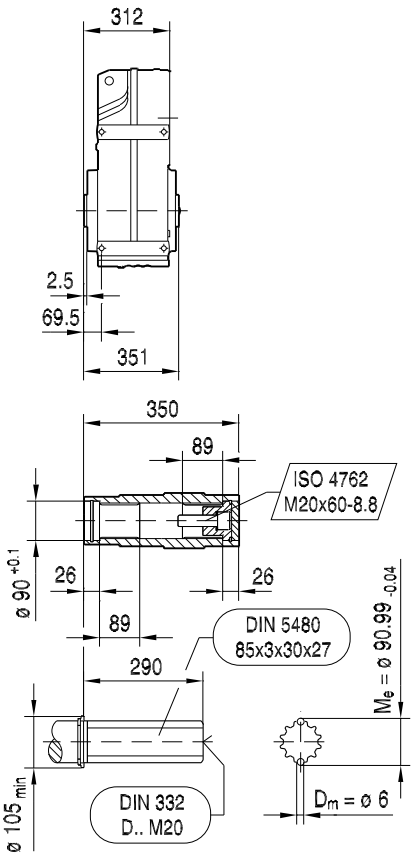
FA107B..



FH107B..

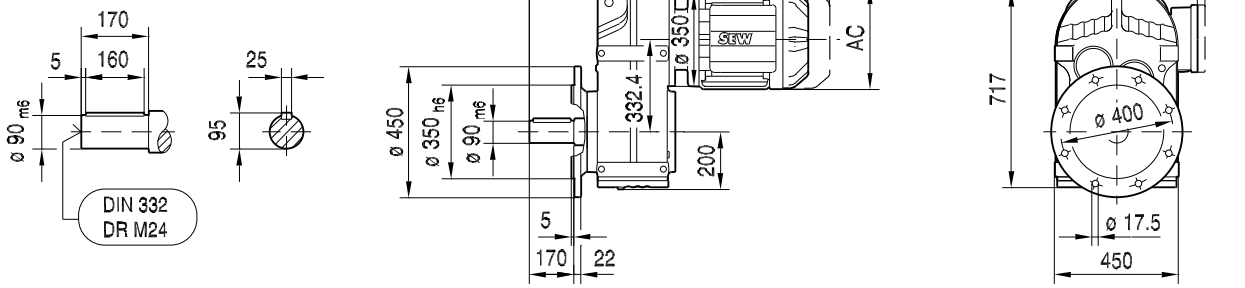


FV107B..

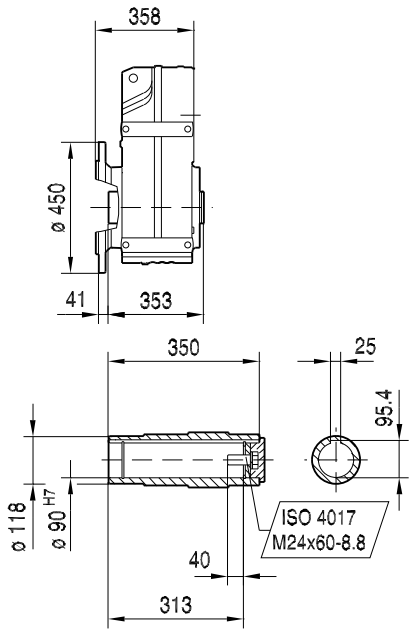


(→ 127)	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC
AC	197	221	221	270	316	316	394	394	394
AD	158	172	172	228	253	253	283	283	283
ADS	158	172	172	228	253	253	283	283	283
L	804	847	897	938	1007	1067	1140	1140	1190
LS	897	959	1009	1075	1196	1256	1345	1345	1395
LB	320	363	413	454	523	583	656	656	706
LBS	413	475	525	591	712	772	861	861	911

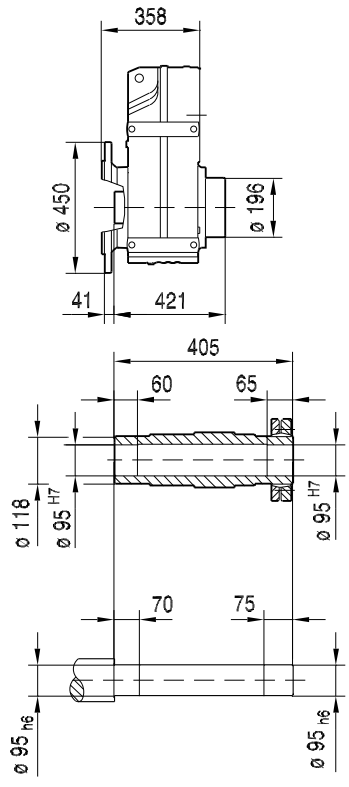
FF107..



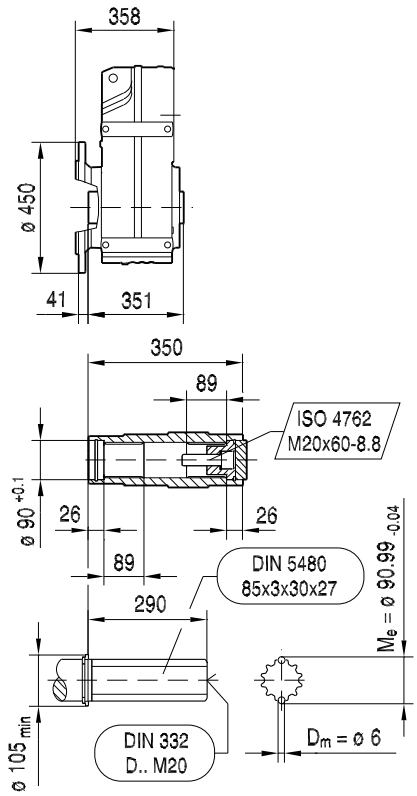
FAF107..



FHF107..



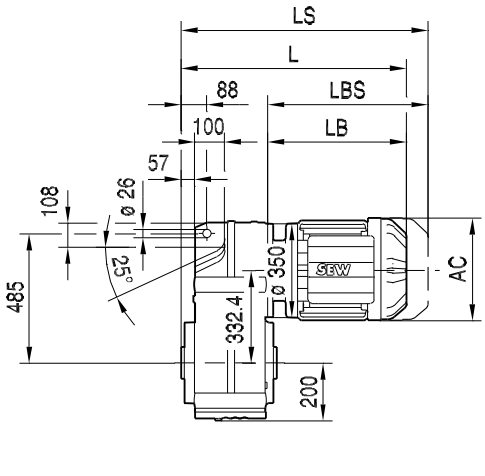
FVF107..

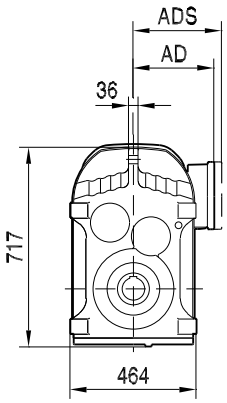


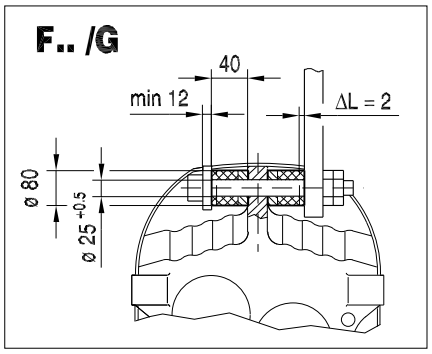
(→ 127)	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC
AC	197	221	221	270	316	316	394	394	394
AD	158	172	172	228	253	253	283	283	283
ADS	158	172	172	228	253	253	283	283	283
L	843	886	936	977	1046	1106	1179	1179	1229
LS	936	998	1048	1114	1235	1295	1384	1384	1434
LB	320	363	413	454	523	583	656	656	706
LBS	413	475	525	591	712	772	861	861	911

42 171 00 09

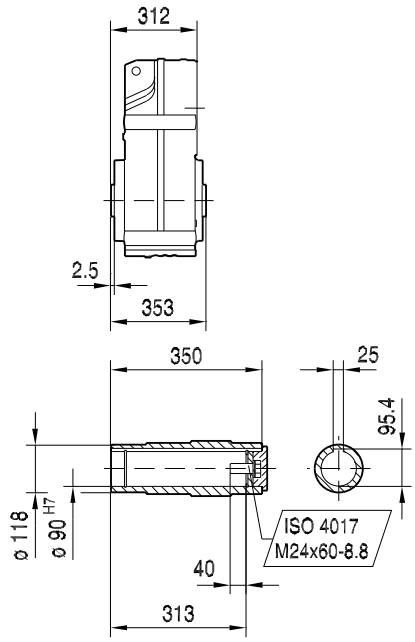
FA107..



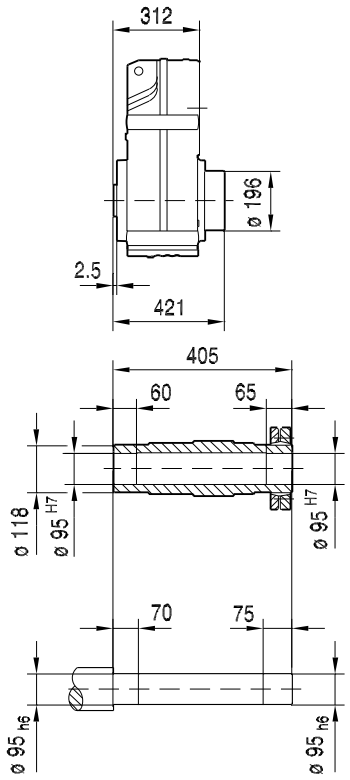




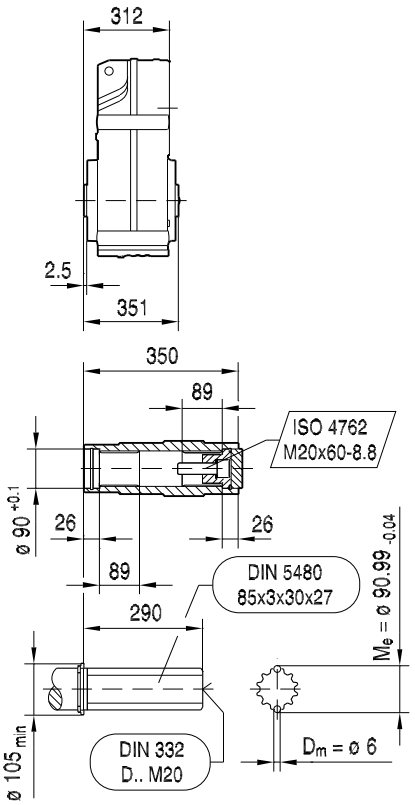
FA107..



FH107..



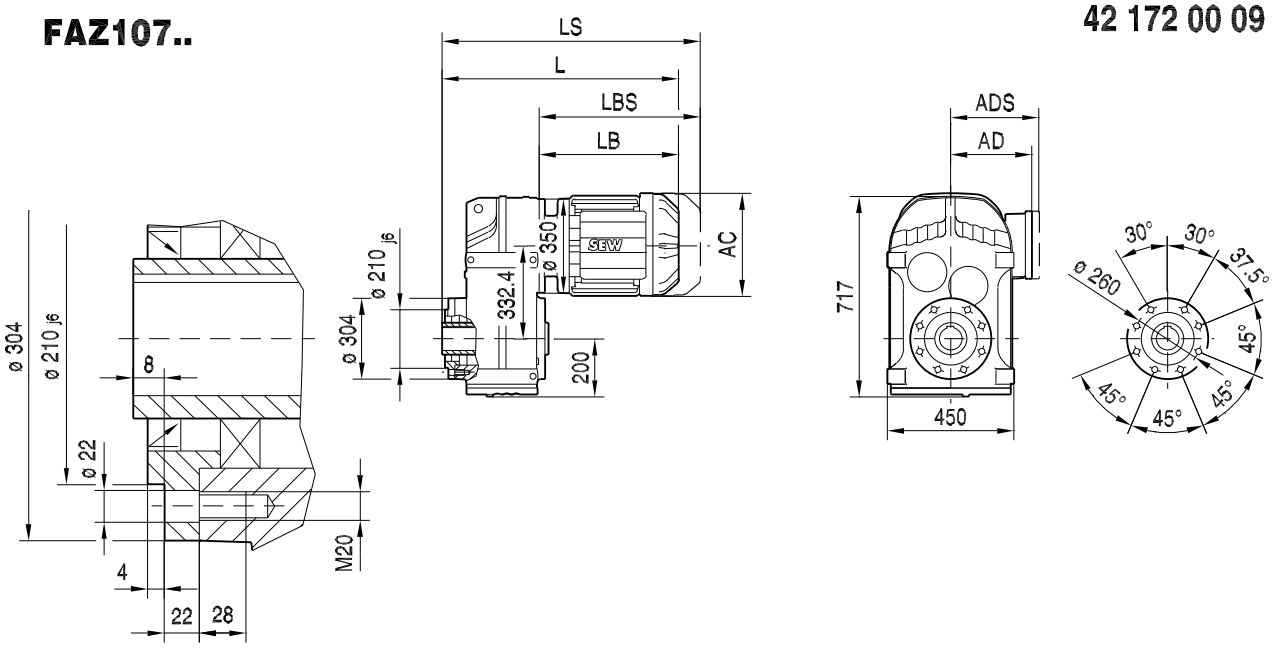
FV107..



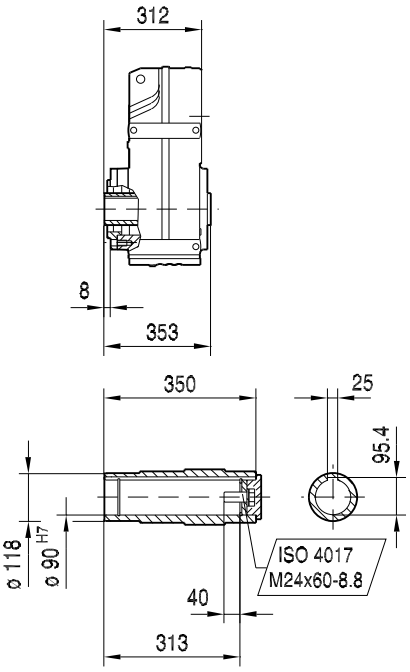
(→ 127)	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC
AC	197	221	221	270	316	316	394	394	394
AD	158	172	172	228	253	253	283	283	283
ADS	158	172	172	228	253	253	283	283	283
L	632	675	725	766	835	895	968	968	1018
LS	725	787	837	903	1024	1084	1173	1173	1223
LB	320	363	413	454	523	583	656	656	706
LBS	413	475	525	591	712	772	861	861	911

42 172 00 09

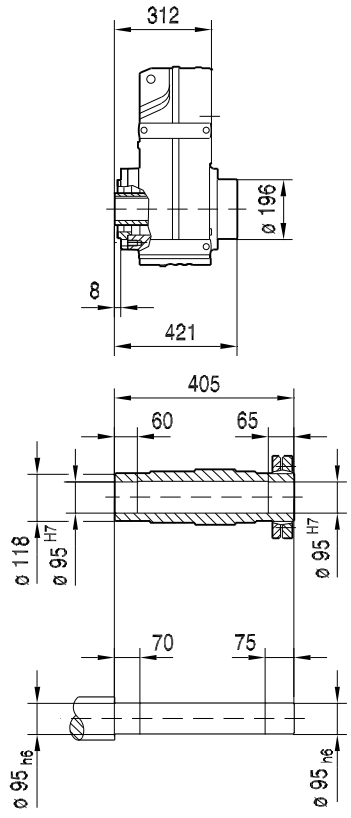
FAZ107..



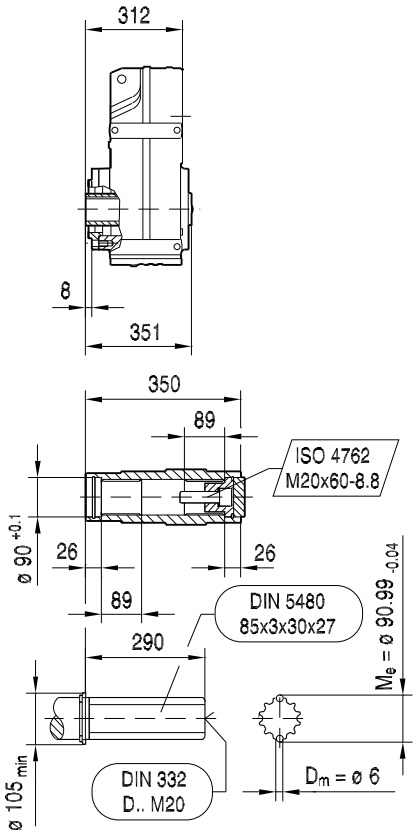
FAZ107..



FHZ107..



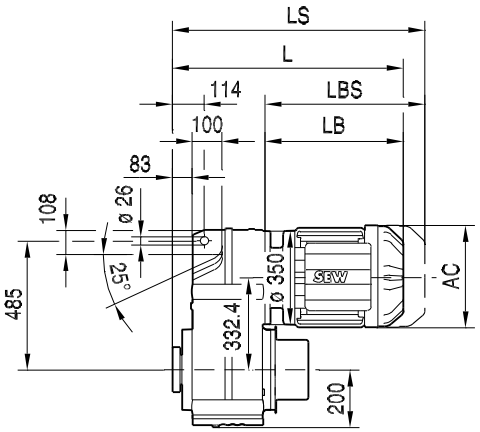
FVZ107..

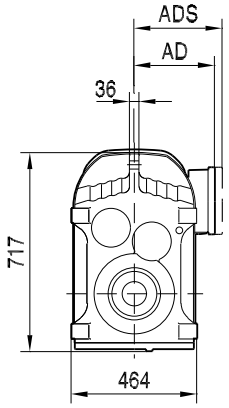


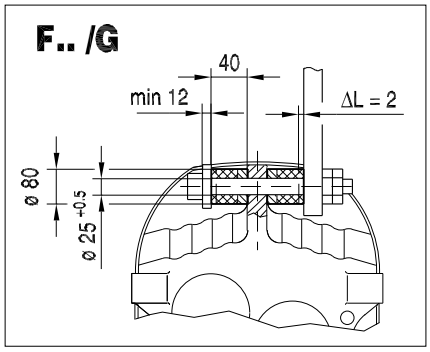
(→ 127)	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC
AC	197	221	221	270	316	316	394	394	394
AD	158	172	172	228	253	253	283	283	283
ADS	158	172	172	228	253	253	283	283	283
L	632	675	725	766	835	895	968	968	1018
LS	725	787	837	903	1024	1084	1173	1173	1223
LB	320	363	413	454	523	583	656	656	706
LBS	413	475	525	591	712	772	861	861	911

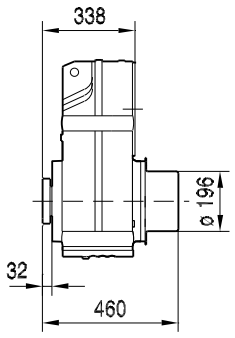
FT107..

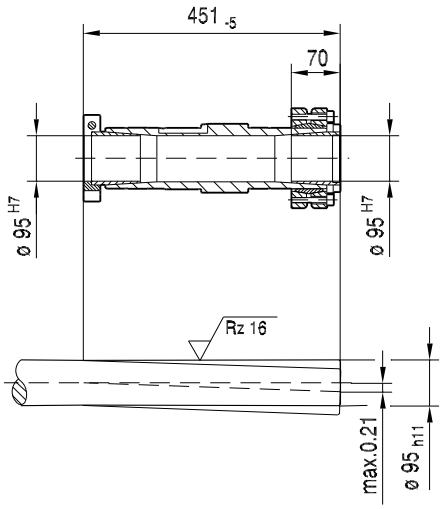
42 173 00 09

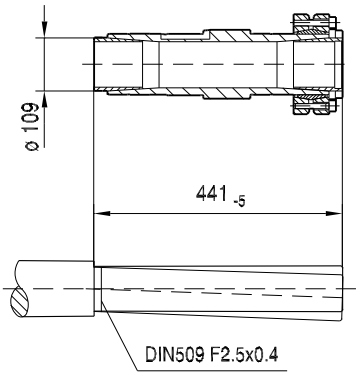








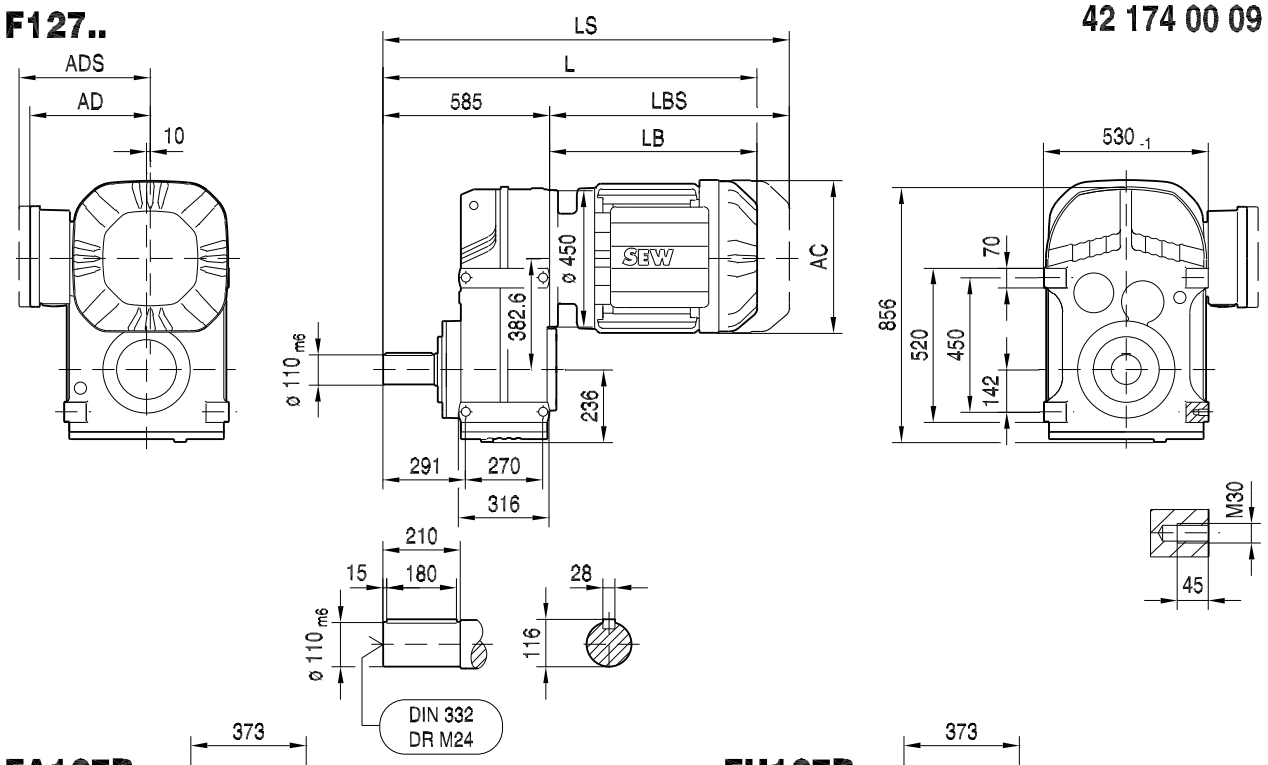




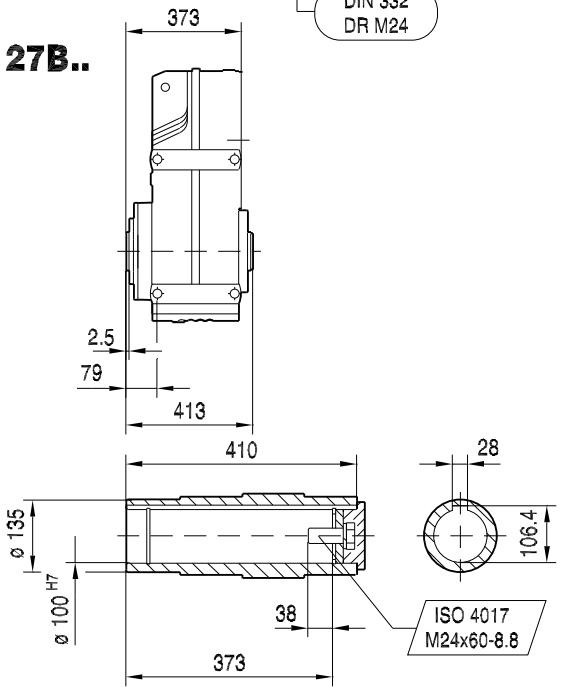
(→ 127)	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC
AC	197	221	221	270	316	316	394	394	394
AD	158	172	172	228	253	253	283	283	283
ADS	158	172	172	228	253	253	283	283	283
L	658	701	751	792	861	921	994	994	1044
LS	751	813	863	929	1050	1110	1199	1199	1249
LB	320	363	413	454	523	583	656	656	706
LBS	413	475	525	591	712	772	861	861	911

F127..

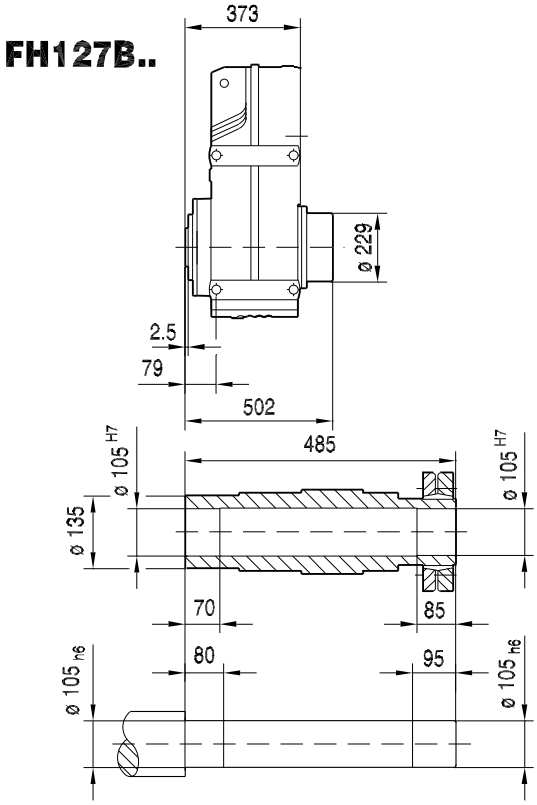
42 174 00 09



FA127B..



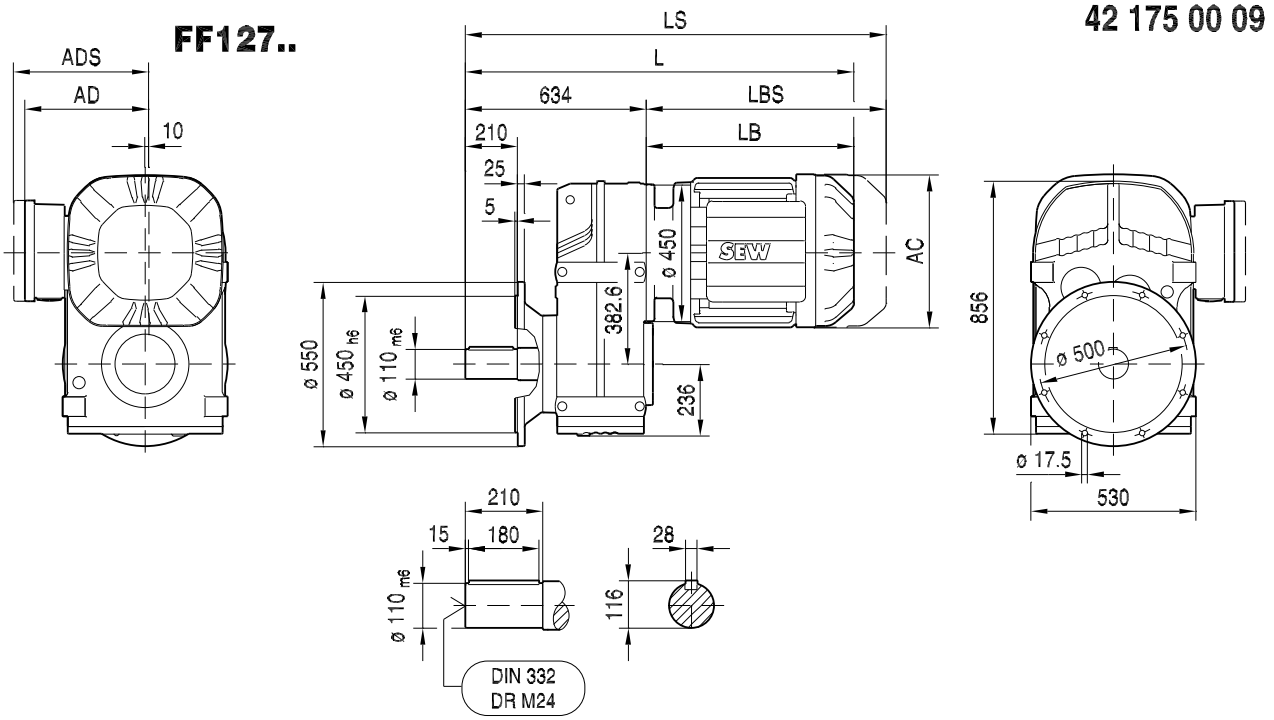
FH127B..



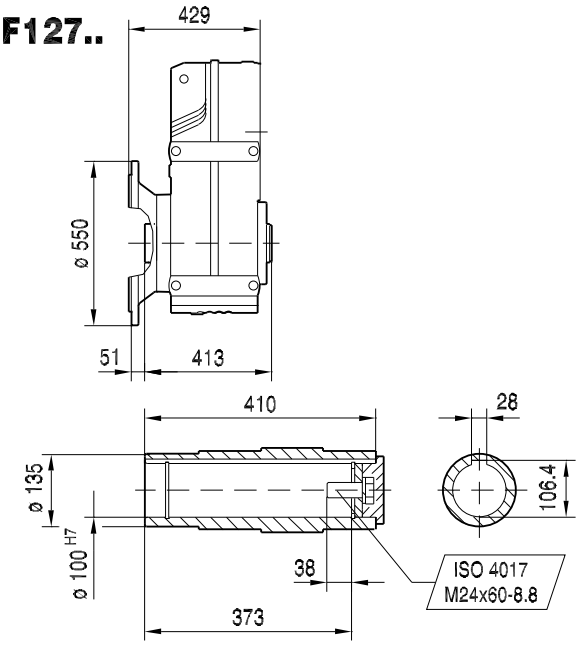
(→ 127)	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..
AC	270	316	316	394	394	394	510	510
AD	228	253	253	283	283	283	397	397
ADS	228	253	253	283	283	283	397	397
L	1024	1093	1153	1226	1226	1276	1365	1365
LS	1161	1282	1342	1431	1431	1481	1550	1550
LB	439	508	568	641	641	691	780	780
LBS	576	697	757	846	846	896	965	965

42 175 00 09

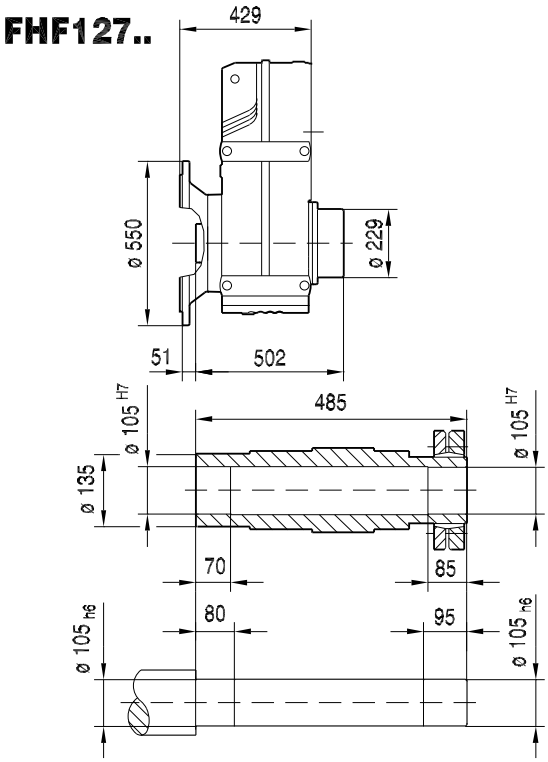
FF127..



FAF127..



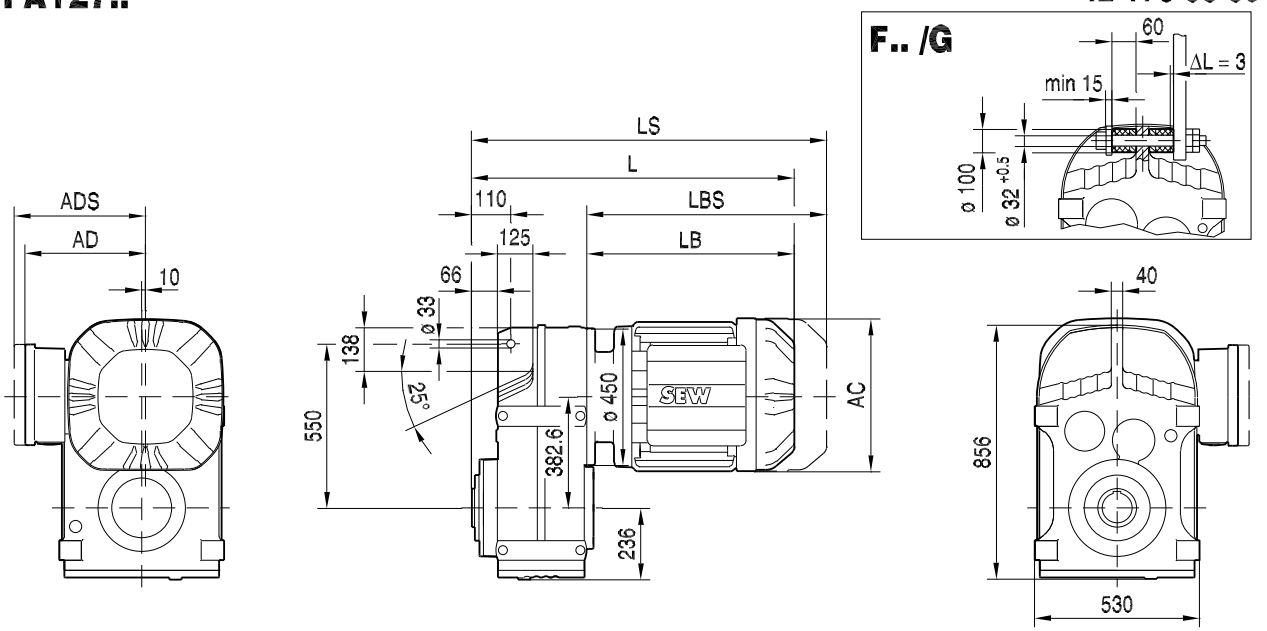
FHF127..



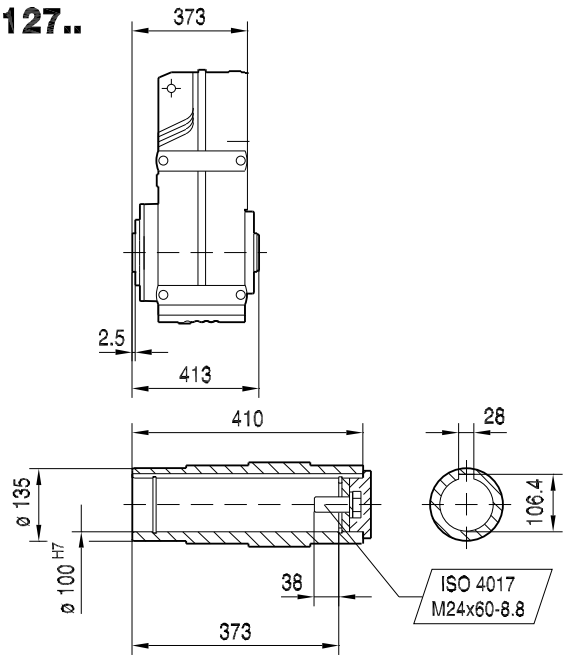
(→ 127)	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..
AC	270	316	316	394	394	394	510	510
AD	228	253	253	283	283	283	397	397
ADS	228	253	253	283	283	283	397	397
L	1073	1142	1202	1275	1275	1325	1414	1414
LS	1210	1331	1391	1480	1480	1530	1599	1599
LB	439	508	568	641	641	691	780	780
LBS	576	697	757	846	846	896	965	965

FA127..

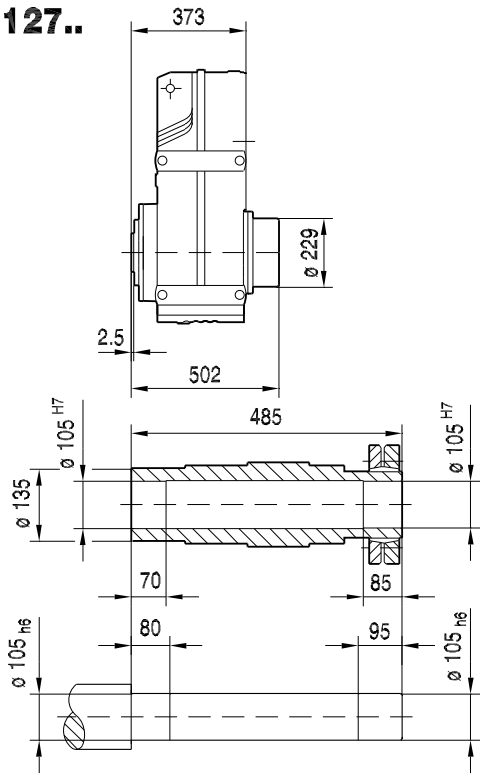
42 176 00 09



FA127..



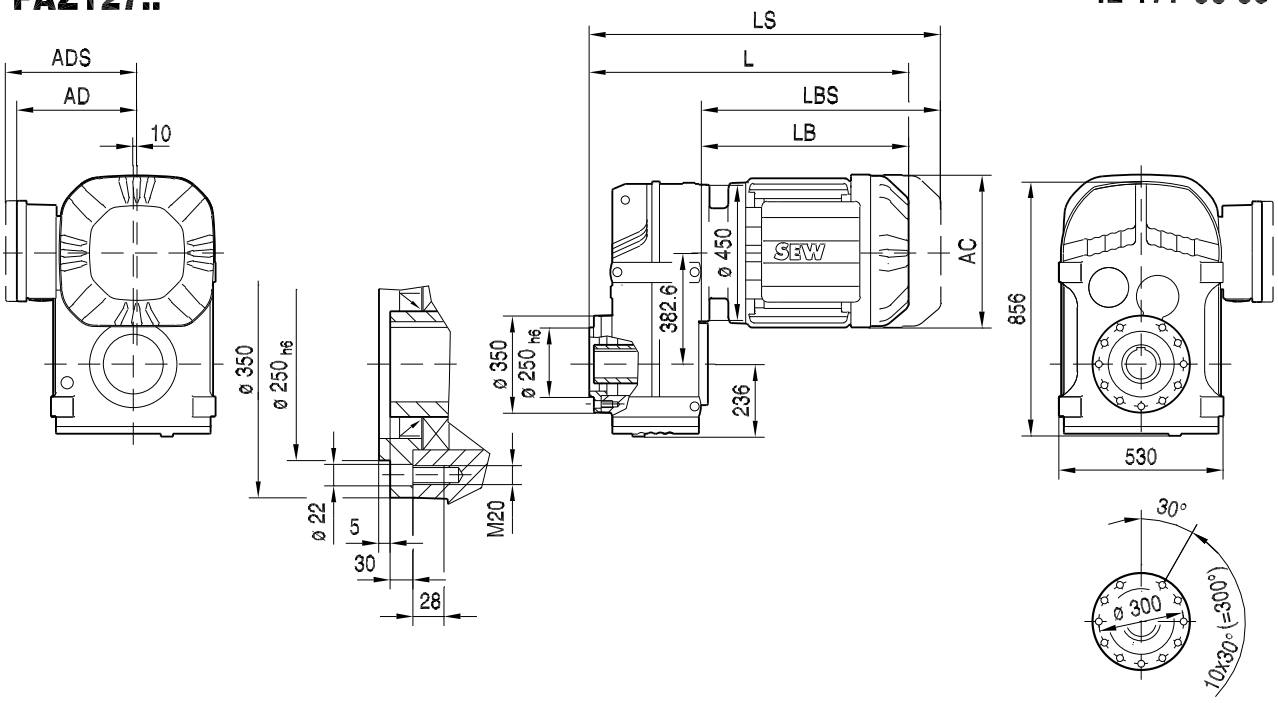
FH127..



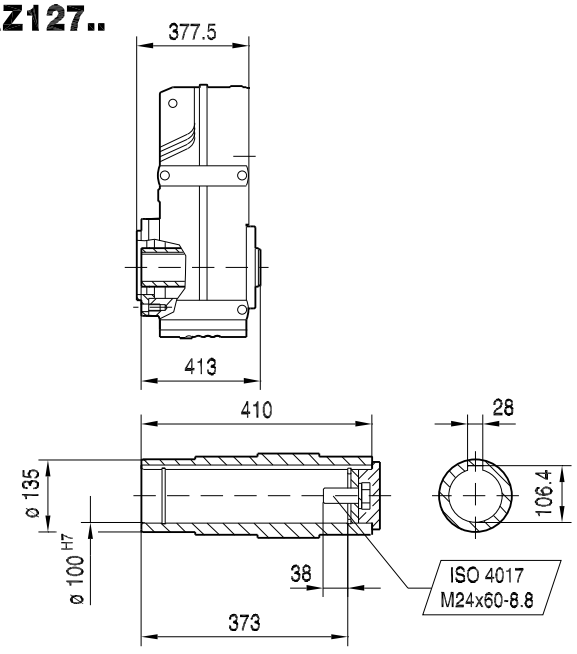
(→ 127)	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..
AC	270	316	316	394	394	394	510	510
AD	228	253	253	283	283	283	397	397
ADS	228	253	253	283	283	283	397	397
L	812	881	941	1014	1014	1064	1153	1153
LS	949	1070	1130	1219	1219	1269	1338	1338
LB	439	508	568	641	641	691	780	780
LBS	576	697	757	846	846	896	965	965

FAZ127..

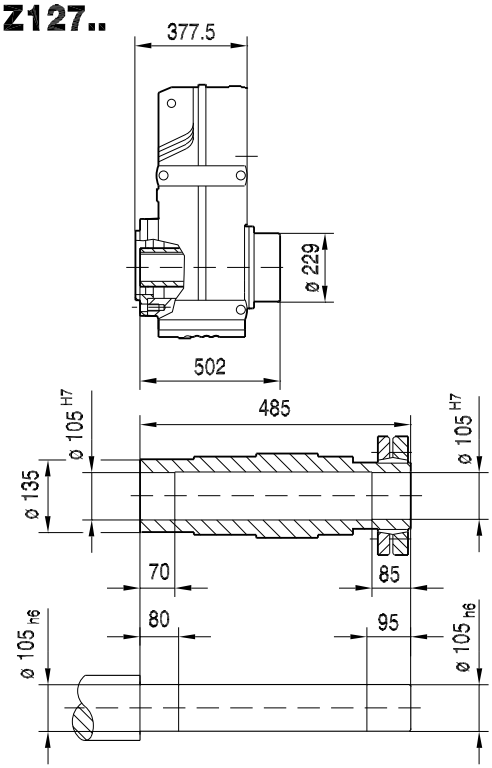
42 177 00 09



FAZ127..



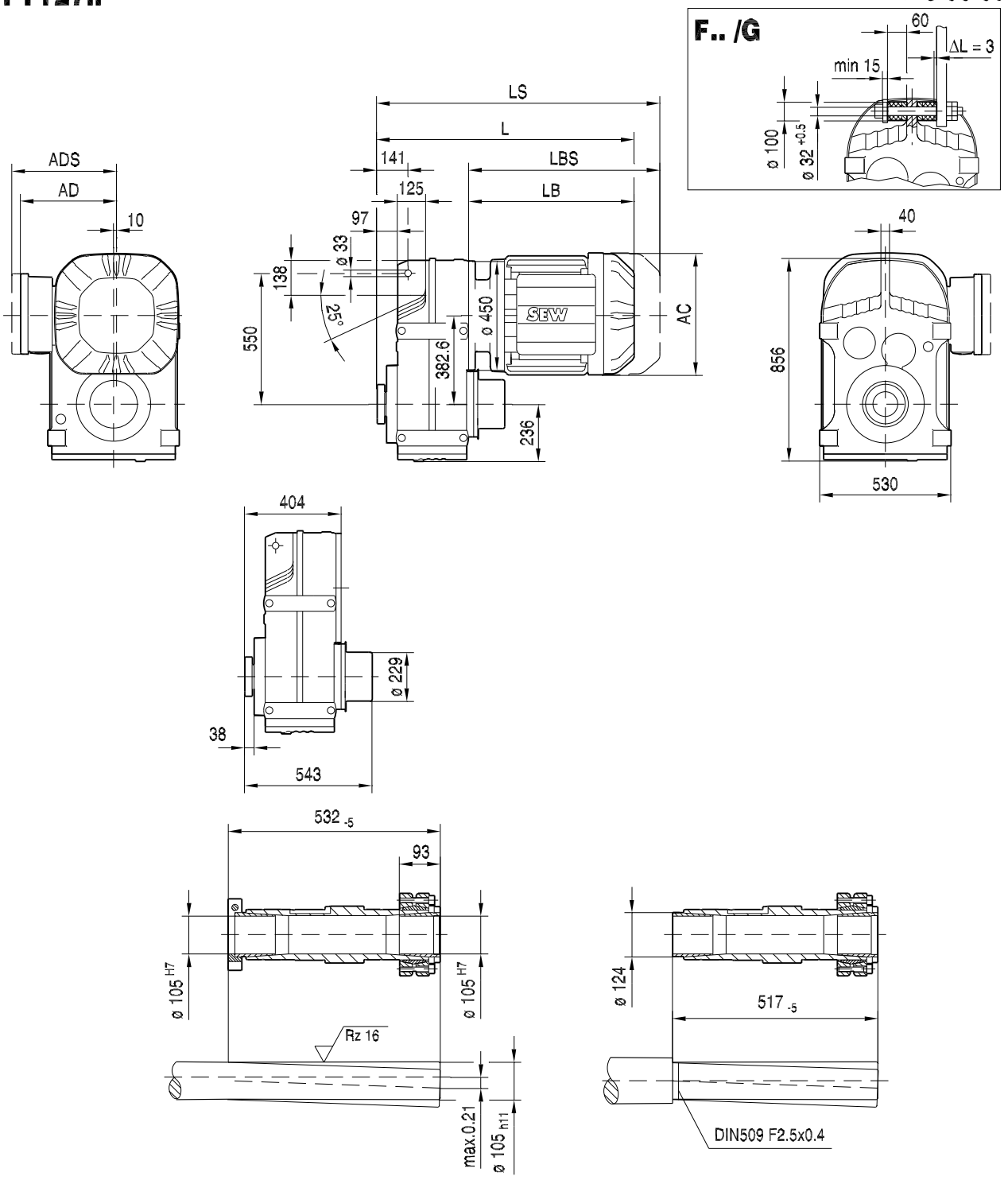
FHZ127..



(→ 127)	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..
AC	270	316	316	394	394	394	510	510
AD	228	253	253	283	283	283	397	397
ADS	228	253	253	283	283	283	397	397
L	817	886	946	1019	1019	1069	1158	1158
LS	954	1075	1135	1224	1224	1274	1342	1342
LB	439	508	568	641	641	691	780	780
LBS	576	697	757	846	846	896	965	965

FT127..

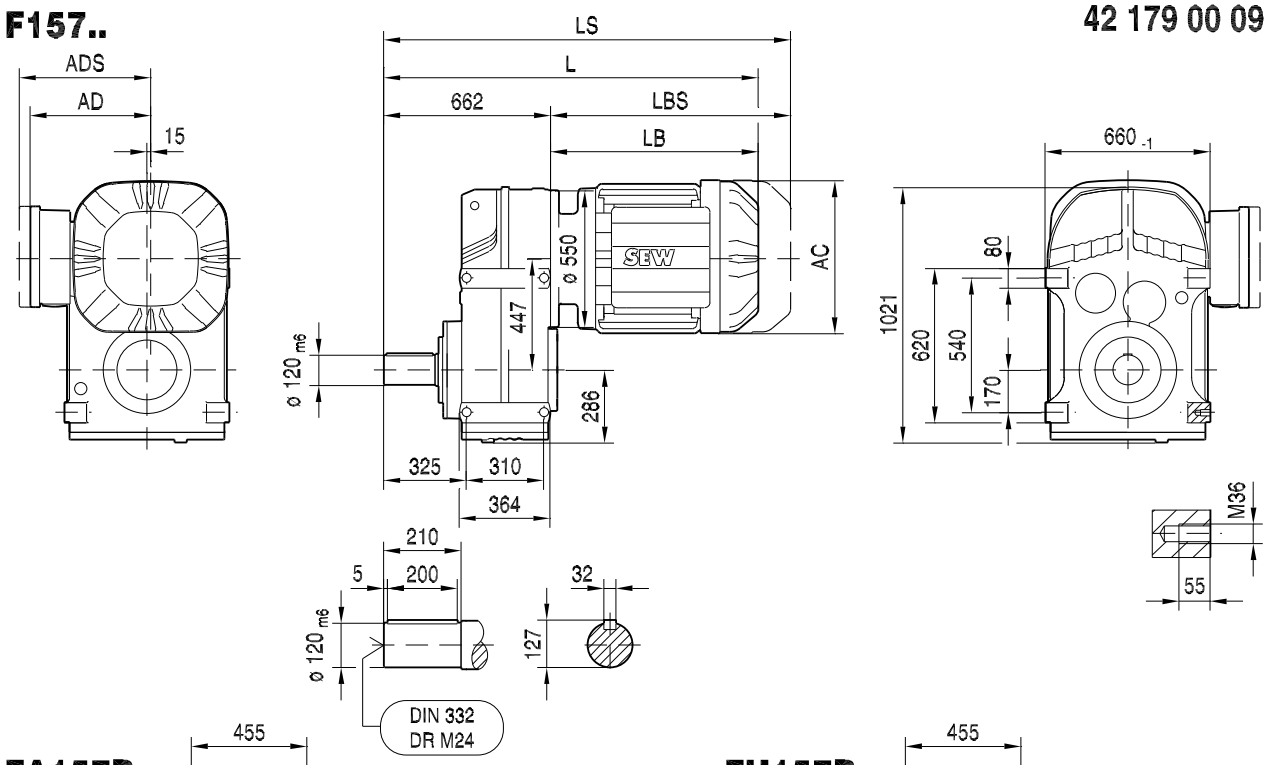
42 178 00 09



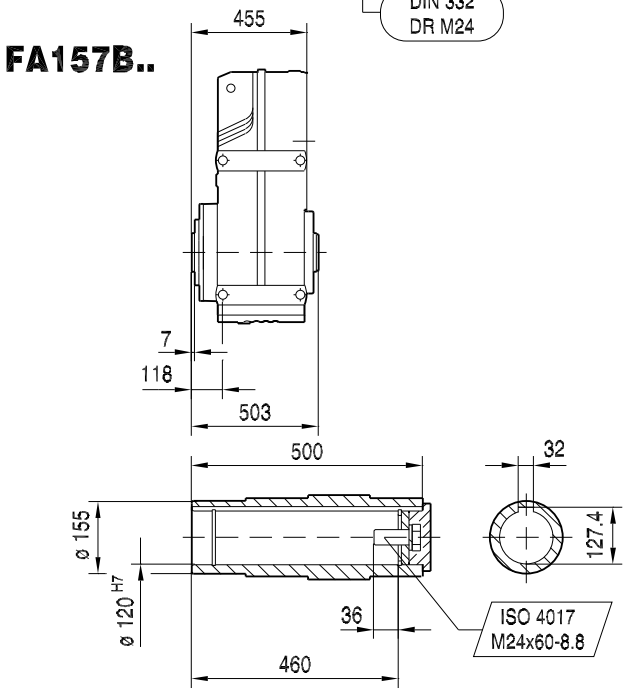
(→ 127)	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..
AC	270	316	316	394	394	394	510	510
AD	228	253	253	283	283	283	397	397
ADS	228	253	253	283	283	283	397	397
L	843	912	972	1045	1045	1095	1184	1184
LS	980	1101	1161	1250	1250	1300	1369	1369
LB	439	508	568	641	641	691	780	780
LBS	576	697	757	846	846	896	965	965

F157..

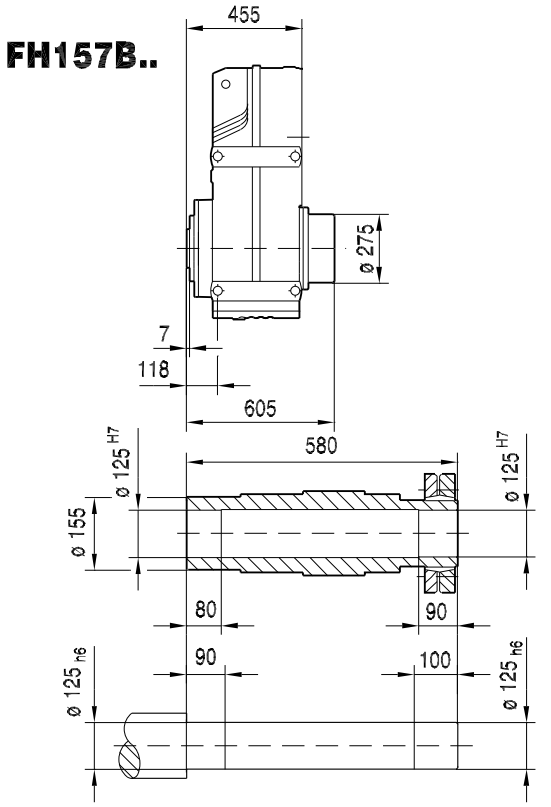
42 179 00 09



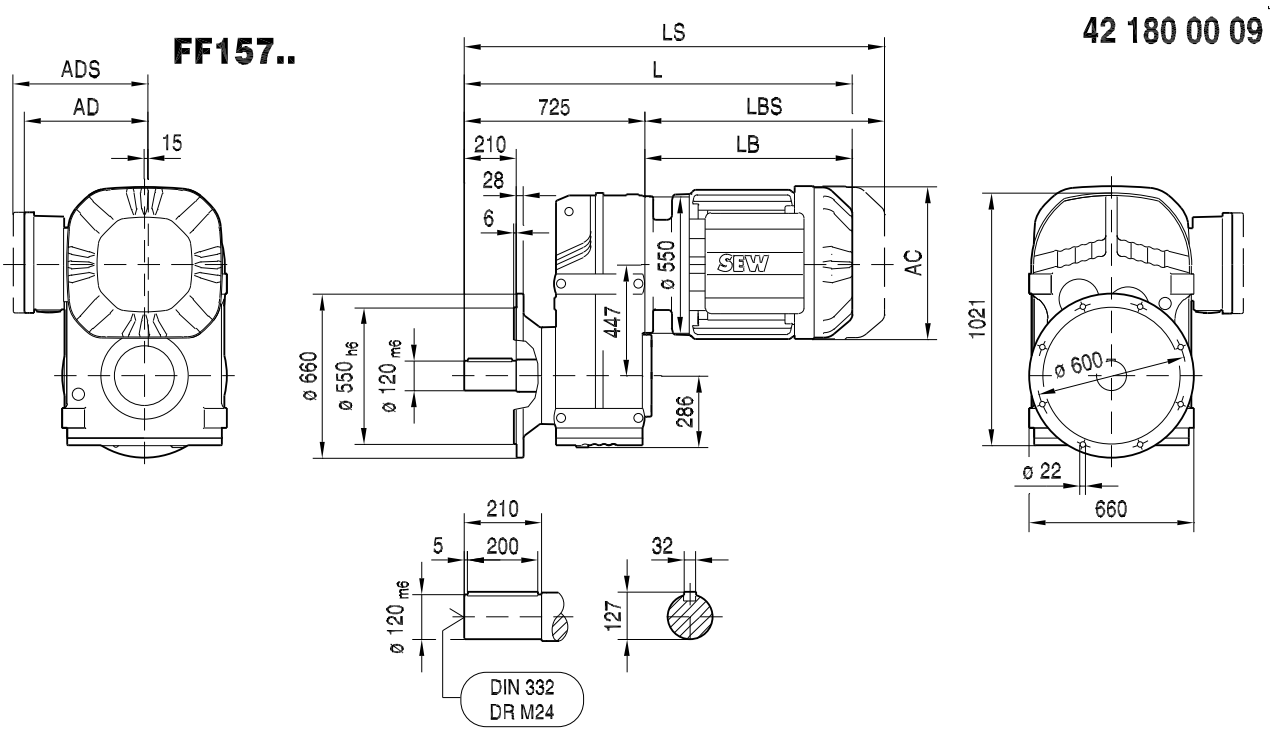
FA157B..

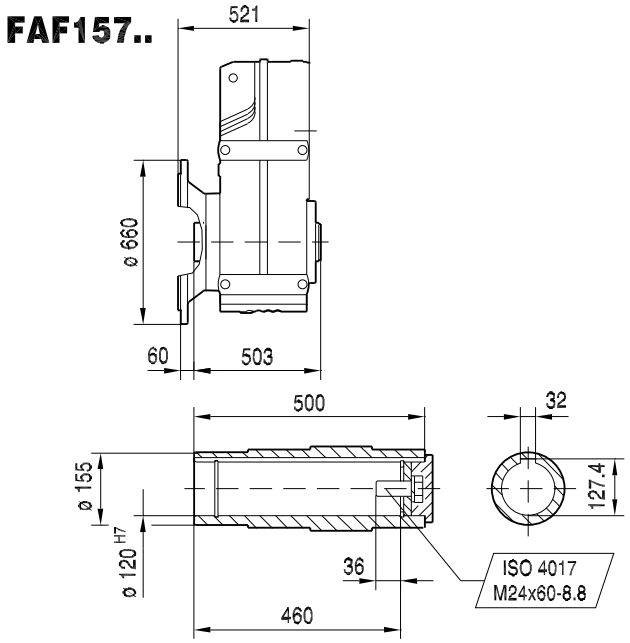


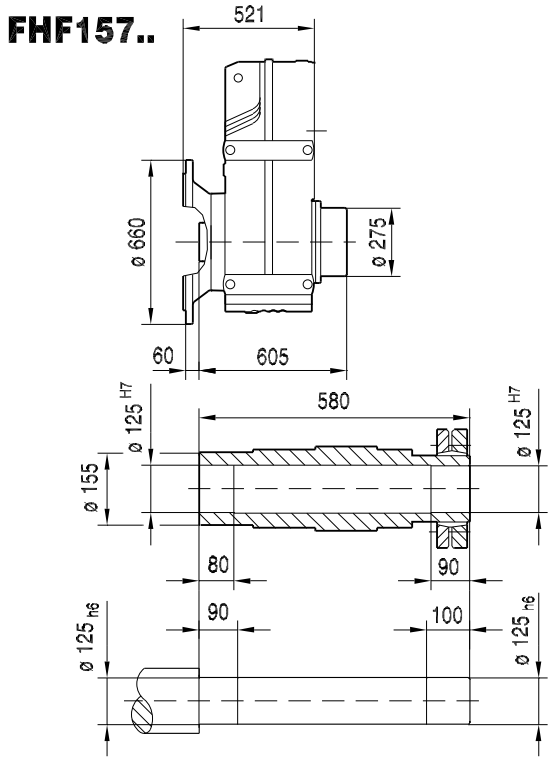
FH157B..



(→ 127)	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..	
AC	316	316	394	394	394	510	510	
AD	253	253	283	283	283	397	397	
ADS	253	253	283	283	283	397	397	
L	1162	1222	1295	1295	1345	1433	1433	
LS	1351	1411	1500	1500	1550	1618	1618	
LB	500	560	633	633	683	771	771	
LBS	689	749	838	838	888	956	956	



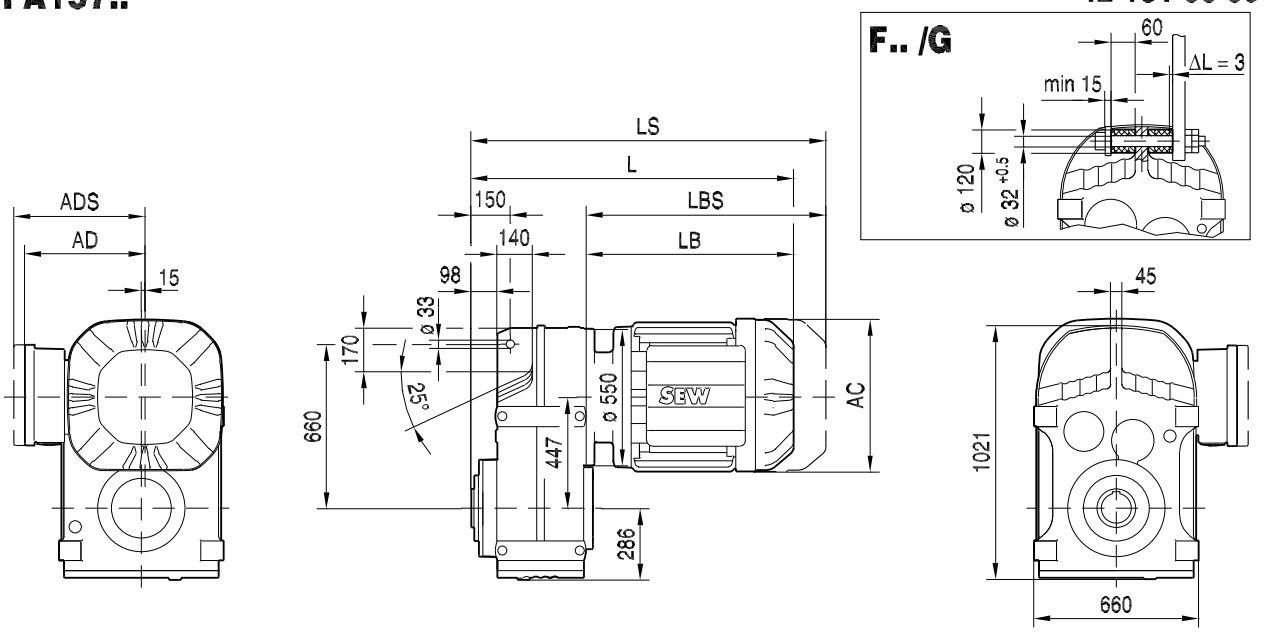




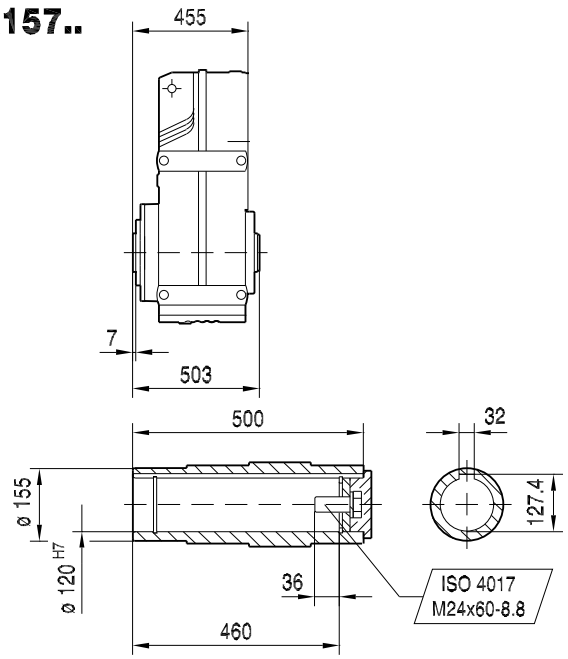
(→ 127)	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..	
AC	316	316	394	394	394	510	510	
AD	253	253	283	283	283	397	397	
ADS	253	253	283	283	283	397	397	
L	1225	1285	1358	1358	1408	1496	1496	
LS	1414	1474	1563	1563	1613	1681	1681	
LB	500	560	633	633	683	771	771	
LBS	689	749	838	838	888	956	956	

FA157..

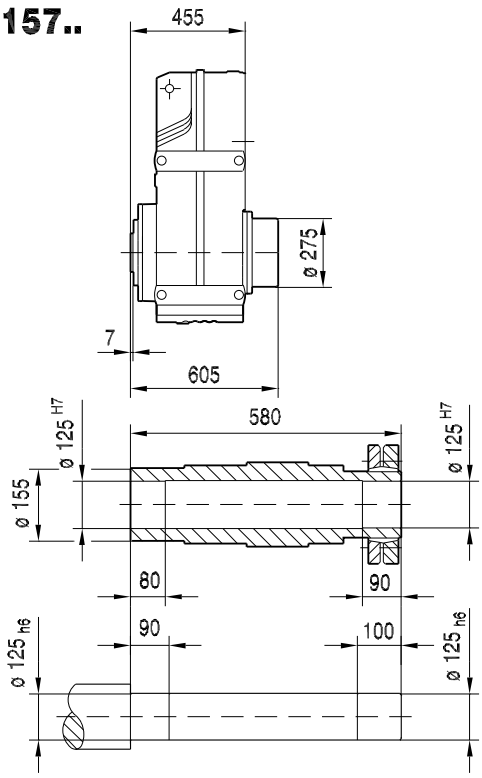
42 181 00 09



FA157..



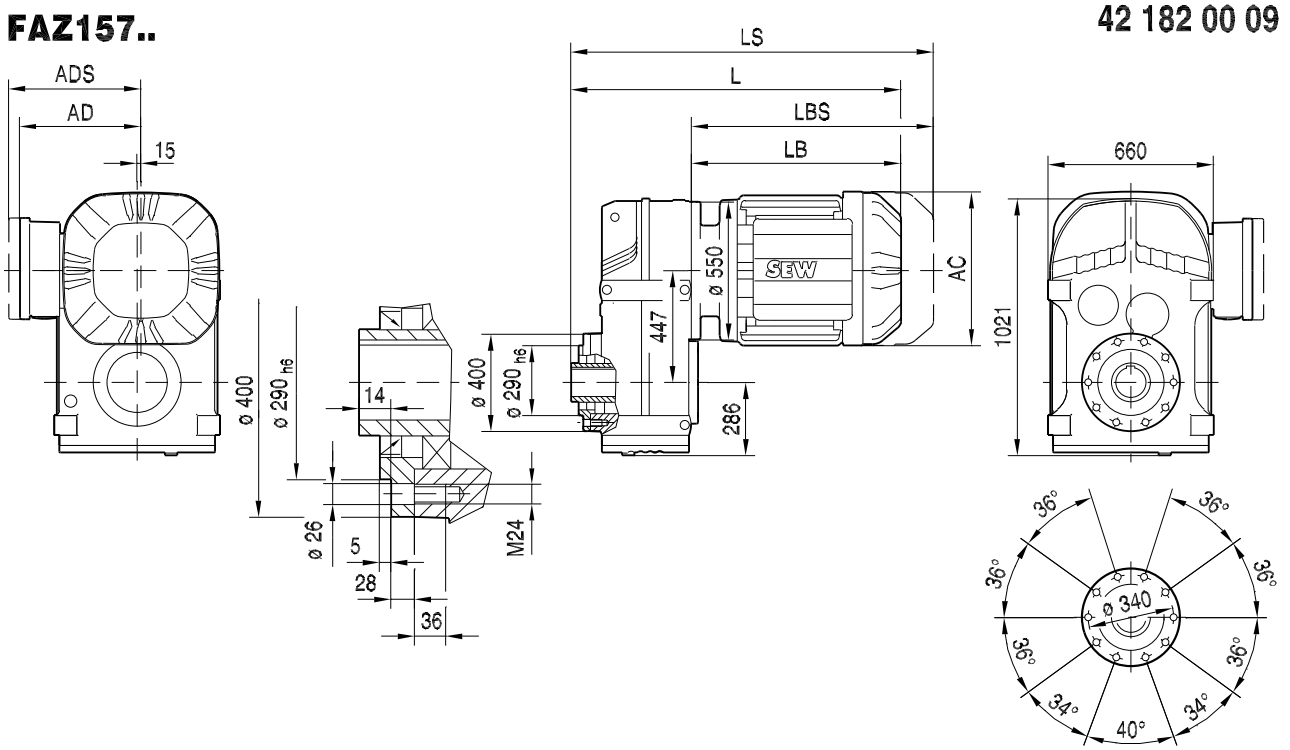
FH157..



(→ 127)	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..	
AC	316	316	394	394	394	510	510	
AD	253	253	283	283	283	397	397	
ADS	253	253	283	283	283	397	397	
L	955	1015	1088	1088	1138	1226	1226	
LS	1144	1204	1293	1293	1343	1411	1411	
LB	500	560	633	633	683	771	771	
LBS	689	749	838	838	888	956	956	

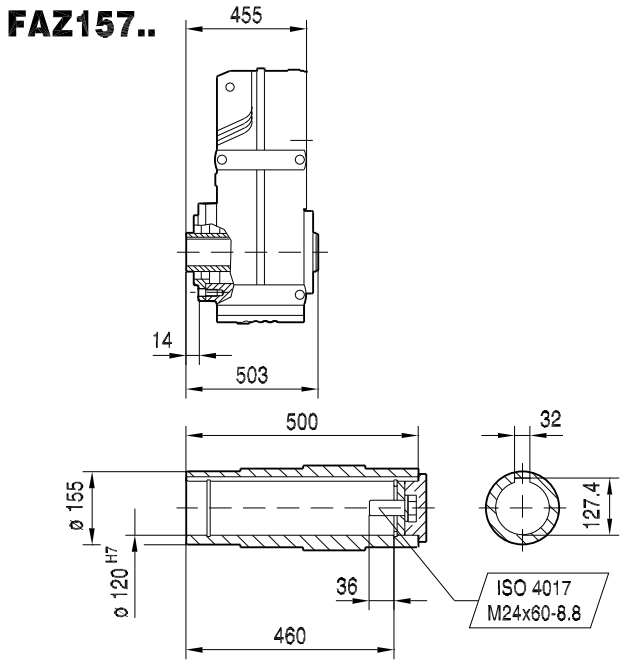
FAZ157..

42 182 00 09

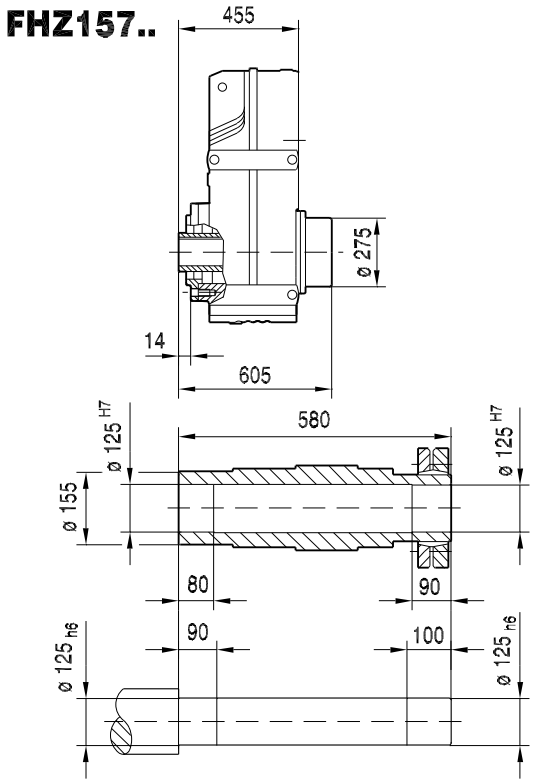


10

FAZ157..



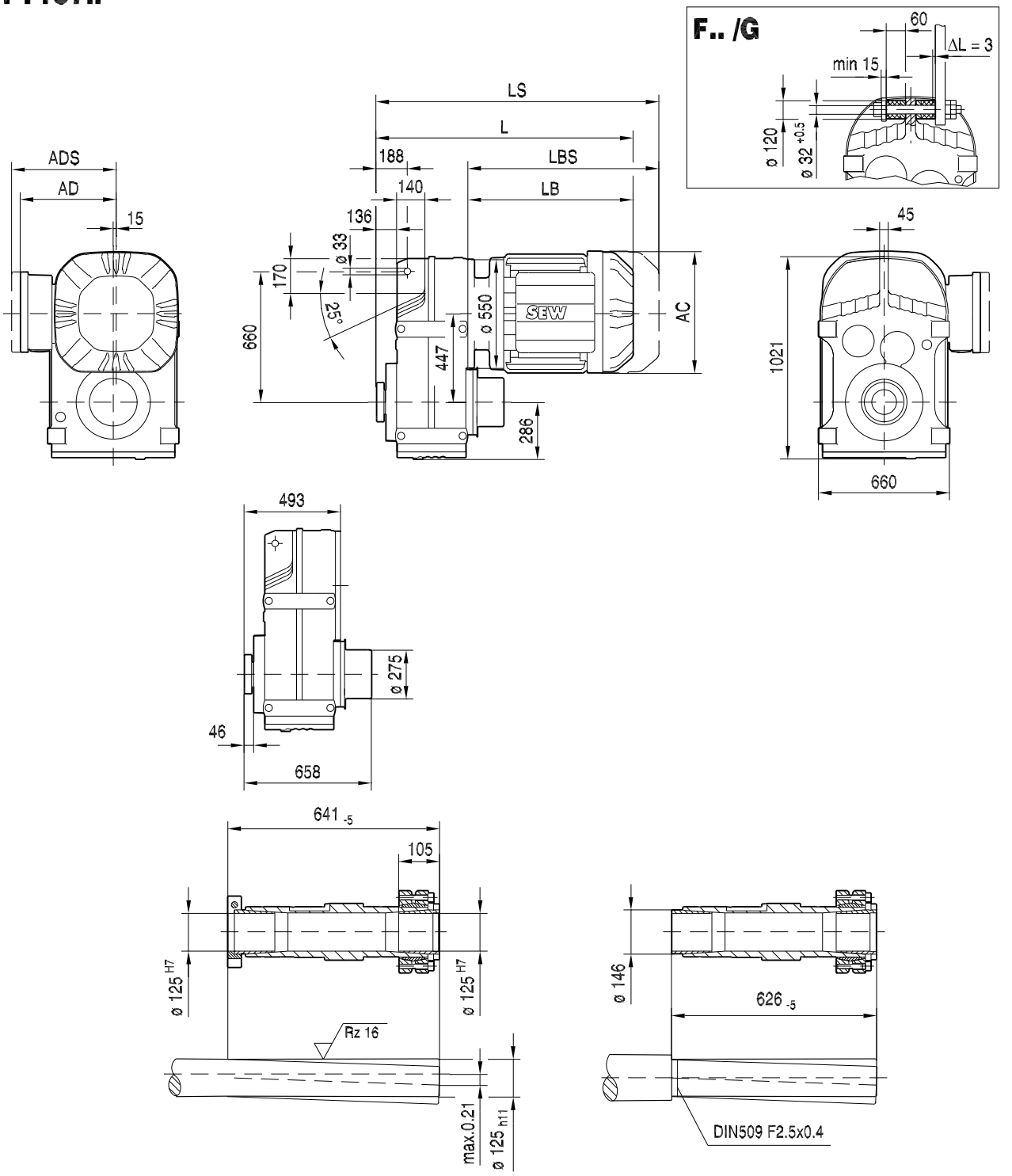
FHZ157..



(→ 127)	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..	
AC	316	316	394	394	394	510	510	
AD	253	253	283	283	283	397	397	
ADS	253	253	283	283	283	397	397	
L	955	1015	1088	1088	1138	1226	1226	
LS	1144	1204	1293	1293	1343	1411	1411	
LB	500	560	633	633	683	771	771	
LBS	689	749	838	838	888	956	956	

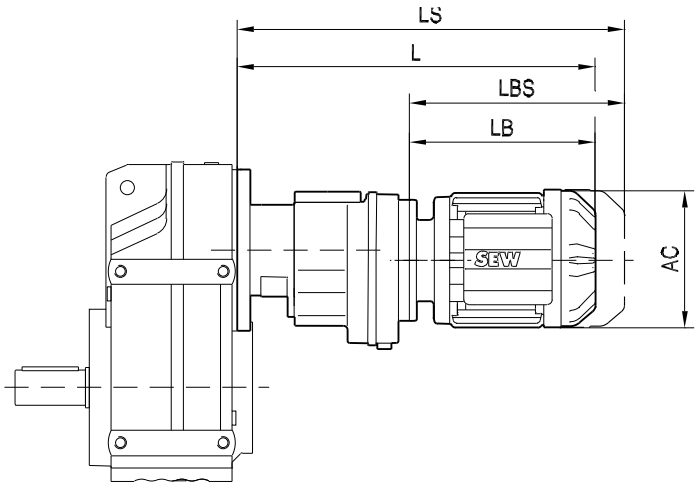
FT157..

42 183 00 09



(→ 127)	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..	
AC	316	316	394	394	394	510	510	
AD	253	253	283	283	283	397	397	
ADS	253	253	283	283	283	397	397	
L	993	1053	1126	1126	1176	1264	1264	
LS	1182	1242	1331	1331	1381	1449	1449	
LB	500	560	633	633	683	771	771	
LBS	689	749	838	838	888	956	956	

42 121 00 06



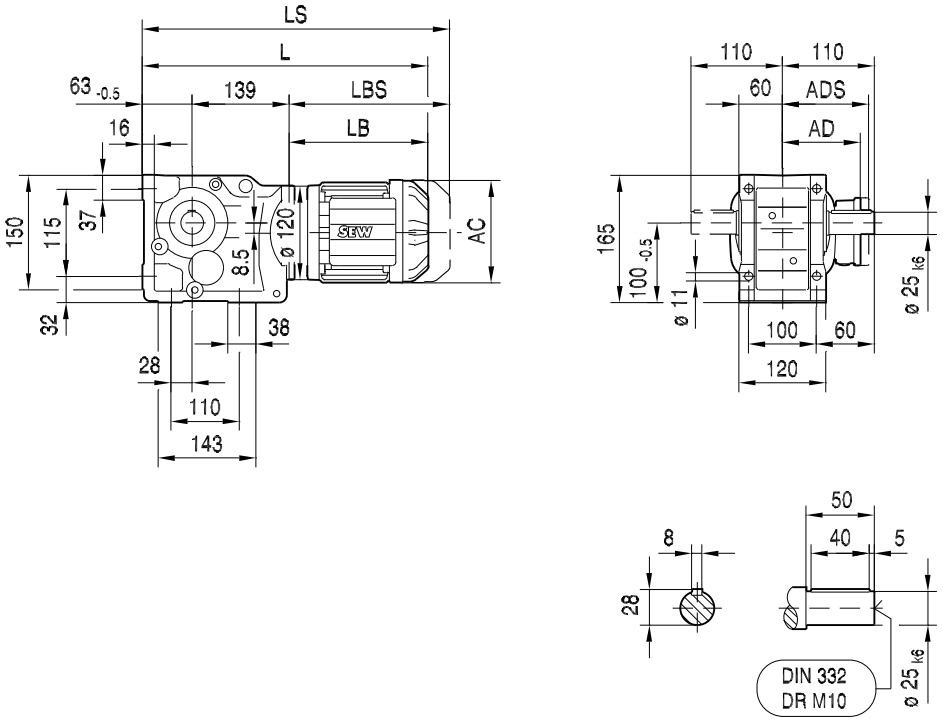
(→ 127)		AC	L	LS	LB	LBS
F..27R17	DR63..	132	324	379	149	204
F..37R17	DR63..	132	324	379	149	204
	EDR71S..	139	335	403	160	228
F..47R17	EDR63..	132	324	379	149	204
	EDR71S..	139	335	403	160	228
	EDR71M..	139	360	428	185	253
F..57R37	DR63..	132	356	411	191	246
	EDR71S..	139	367	435	202	270
	EDR71M..	139	392	460	227	295
	EDR80S..	156	401	482	236	317
F..67R37	DR63..	132	356	411	191	246
	EDR71S..	139	367	435	202	270
	EDR71M..	139	392	460	227	295
	EDR80S..	156	401	482	236	317
	EDR80M..	156	432	513	267	348
F..77R37	DR63..	132	348	403	191	246
	EDR71S..	139	359	427	202	270
	EDR71M..	139	384	452	227	295
	EDR80S..	156	393	474	236	317
	EDR80M..	156	424	505	267	348
	EDR90M..	179	426	519	269	362
F..87R57	DR63..	132	401	456	185	240
	EDR71S..	139	412	479	196	263
	EDR71M..	139	437	504	221	288
	EDR80S..	156	446	527	230	311
	EDR80M..	156	477	558	261	342
	EDR90M..	179	478	572	262	356
	EDR90L..	179	498	592	282	376
	EDR100M..	197	528	622	312	406
F..97R57	DR63..	132	396	451	185	240
	EDR71S..	139	407	474	196	263
	EDR71M..	139	432	499	221	288
	EDR80S..	156	441	522	230	311
	EDR80M..	156	472	553	261	342
	EDR90M..	179	473	567	262	356
	EDR90L..	179	493	587	282	376
	EDR100M..	197	523	617	312	406
	EDR100LC..	197	553	647	342	436

(→ 127)		AC	L	LS	LB	LBS
F..107R77	DR63..	132	426	481	179	234
	EDR71S..	139	437	504	190	257
	EDR71M..	139	462	529	215	282
	EDR80S..	156	470	551	223	304
	EDR80M..	156	501	582	254	335
	EDR90M..	179	501	595	254	348
	EDR90L..	179	521	615	274	368
	EDR100M..	197	551	645	304	398
	EDR100LC..	197	581	675	334	428
	EDR132S..	221	626	738	379	491
	EDR132M..	221	676	788	429	541
F..127R77	DR63..	132	411	466	179	234
	EDR71S..	139	422	489	190	257
	EDR71M..	139	447	514	215	282
	EDR80S..	156	455	536	223	304
	EDR80M..	156	486	567	254	335
	EDR90M..	179	486	580	254	348
	EDR90L..	179	506	600	274	368
	EDR100M..	197	536	630	304	398
	EDR100LC..	197	566	660	334	428
	EDR132S..	221	611	723	379	491
F..127R87	EDR132S..	221	654	766	374	486
	EDR132M/MC..	221	704	816	424	536
	EDR160..	272	745	882	465	602
F..157R97	EDR71M..	139	529	596	204	271
	EDR80S..	156	538	619	213	294
	EDR80M..	156	569	650	244	325
	EDR90M..	179	569	663	244	338
	EDR90L..	179	589	683	264	358
	EDR100M..	197	619	713	294	388
	EDR100LC..	197	649	743	324	418
	EDR132S..	221	694	806	369	481
	EDR132M/MC..	221	744	856	419	531
	EDR160..	272	785	922	460	597
	EDR180M..	317	871	1070	546	745

10.3 Helical-bevel gearmotors

33 141 00 09

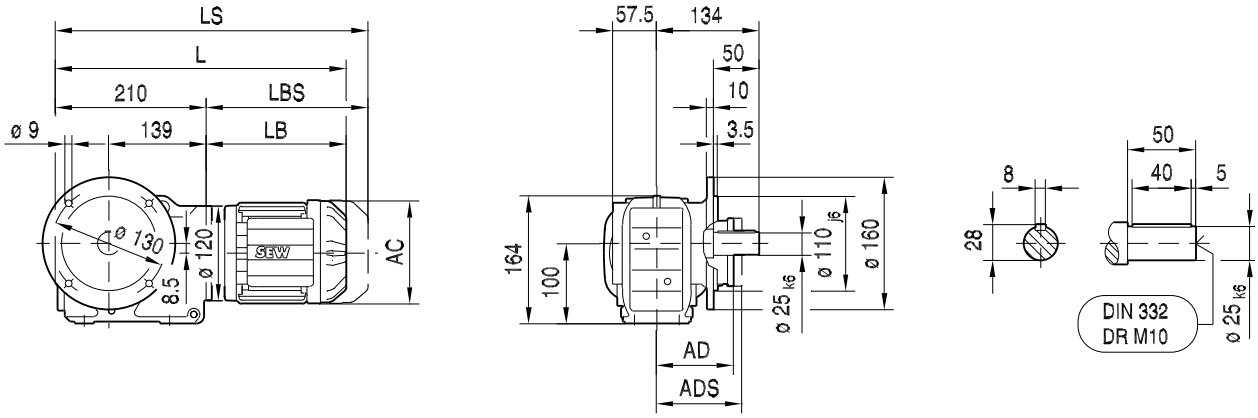
K37..



(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	393	405	430	439	470	474	494	524	554
LS	448	472	497	520	551	567	587	617	647
LB	191	203	228	237	268	272	292	322	352
LBS	246	270	295	318	349	365	385	415	445

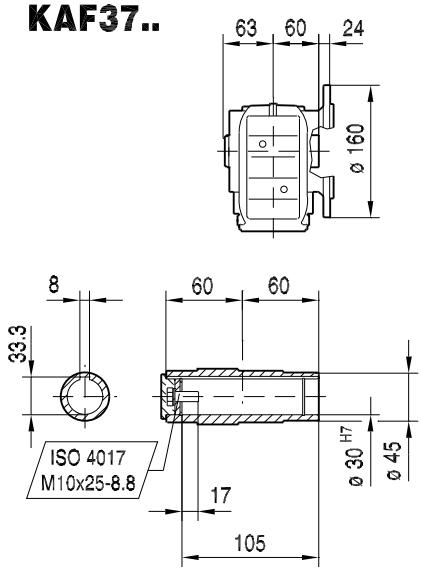
33 142 00 09

KF37..

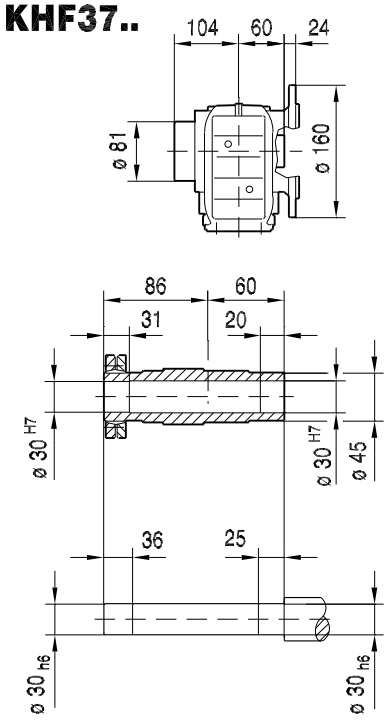


10

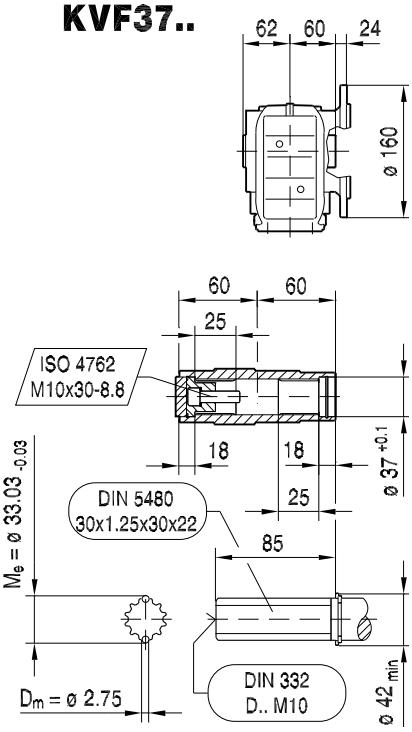
KAF37..



KHF37..



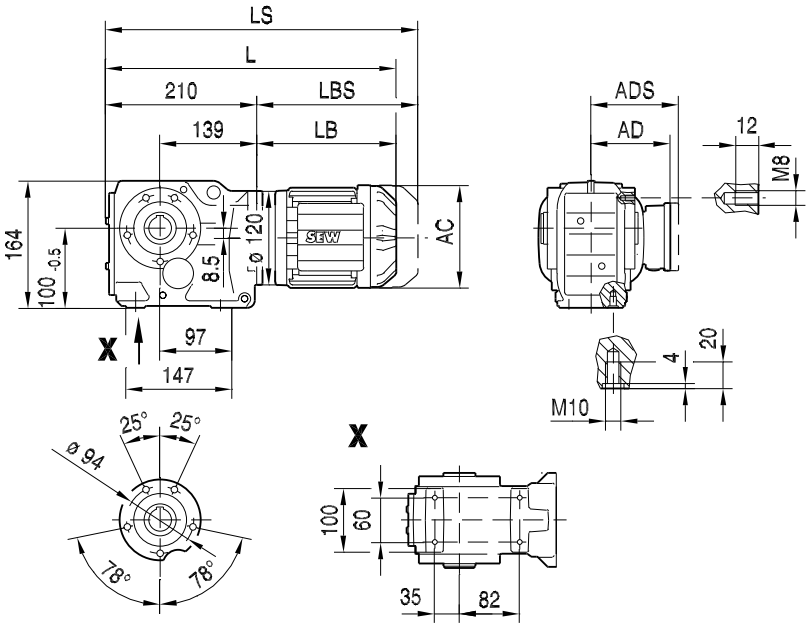
KVF37..

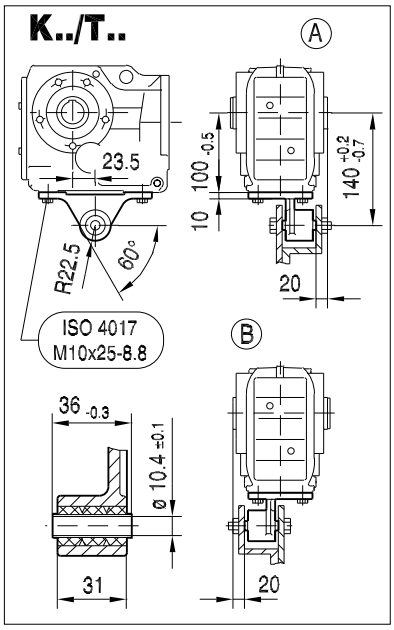


(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	401	413	438	447	478	482	502	532	562
LS	456	480	505	528	559	575	595	625	655
LB	191	203	228	237	268	272	292	322	352
LBS	246	270	295	318	349	365	385	415	445

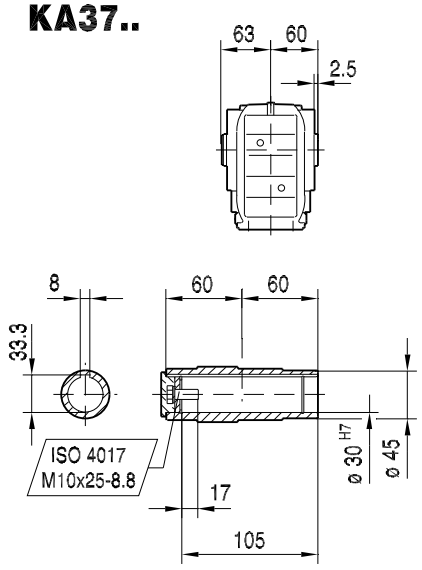
33 143 00 09

KA37..

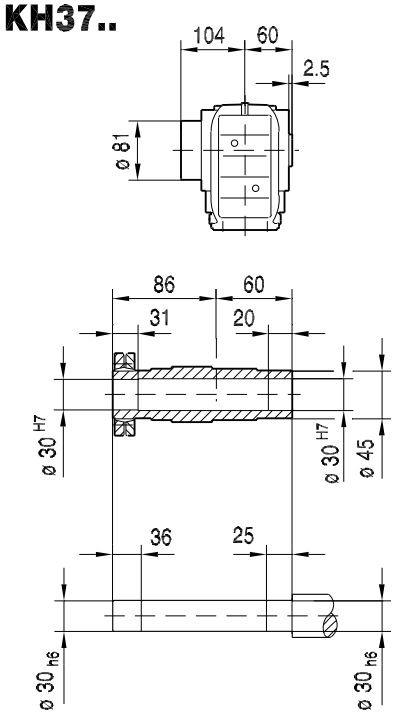




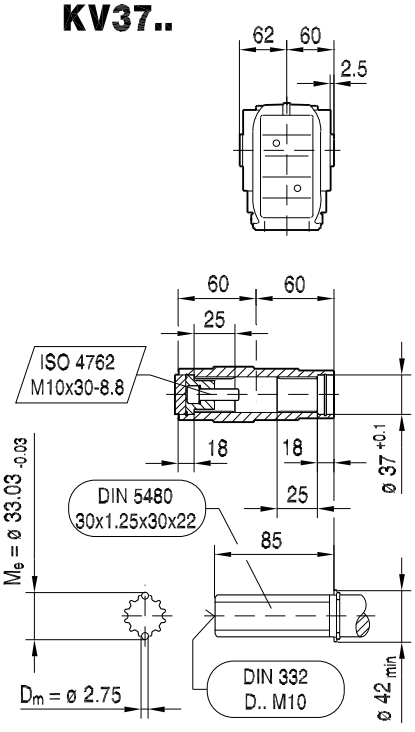
KA37..



KH37..



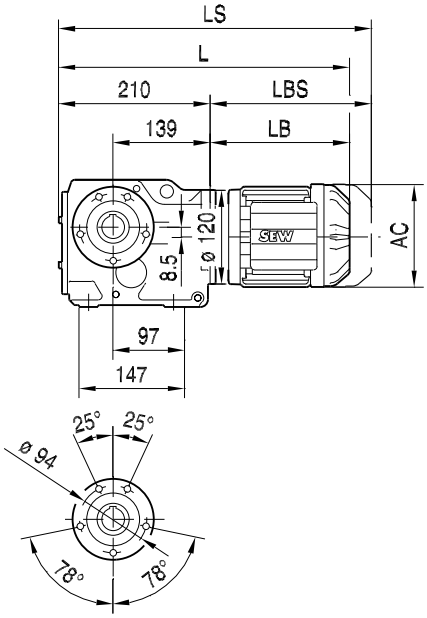
KV37..

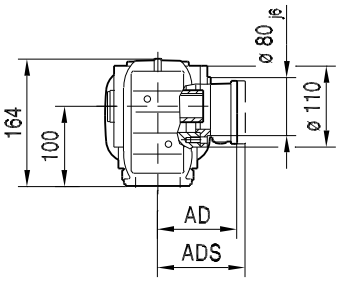


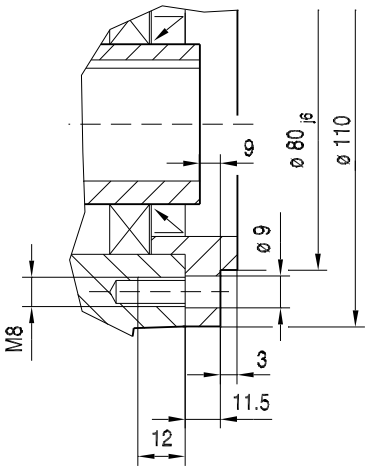
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	401	413	438	447	478	482	502	532	562
LS	456	480	505	528	559	575	595	625	655
LB	191	203	228	237	268	272	292	322	352
LBS	246	270	295	318	349	365	385	415	445

33 144 00 09

KAZ37..

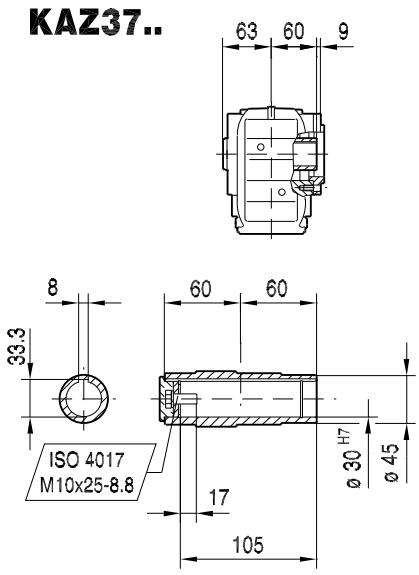




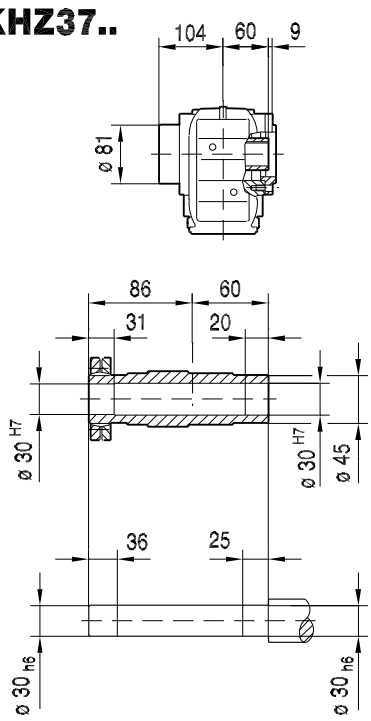


10

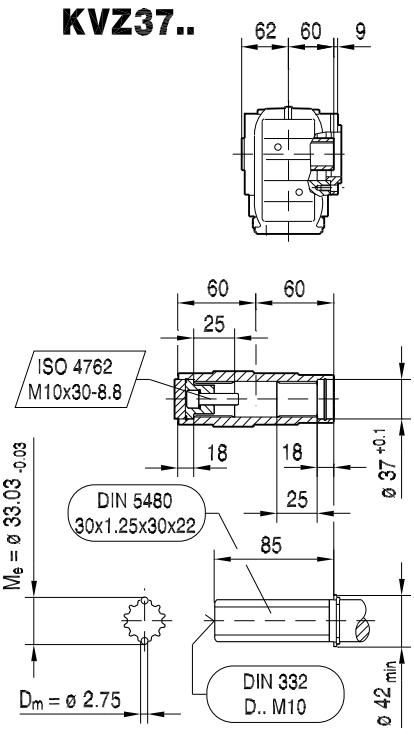
KAZ37..



KHZ37..



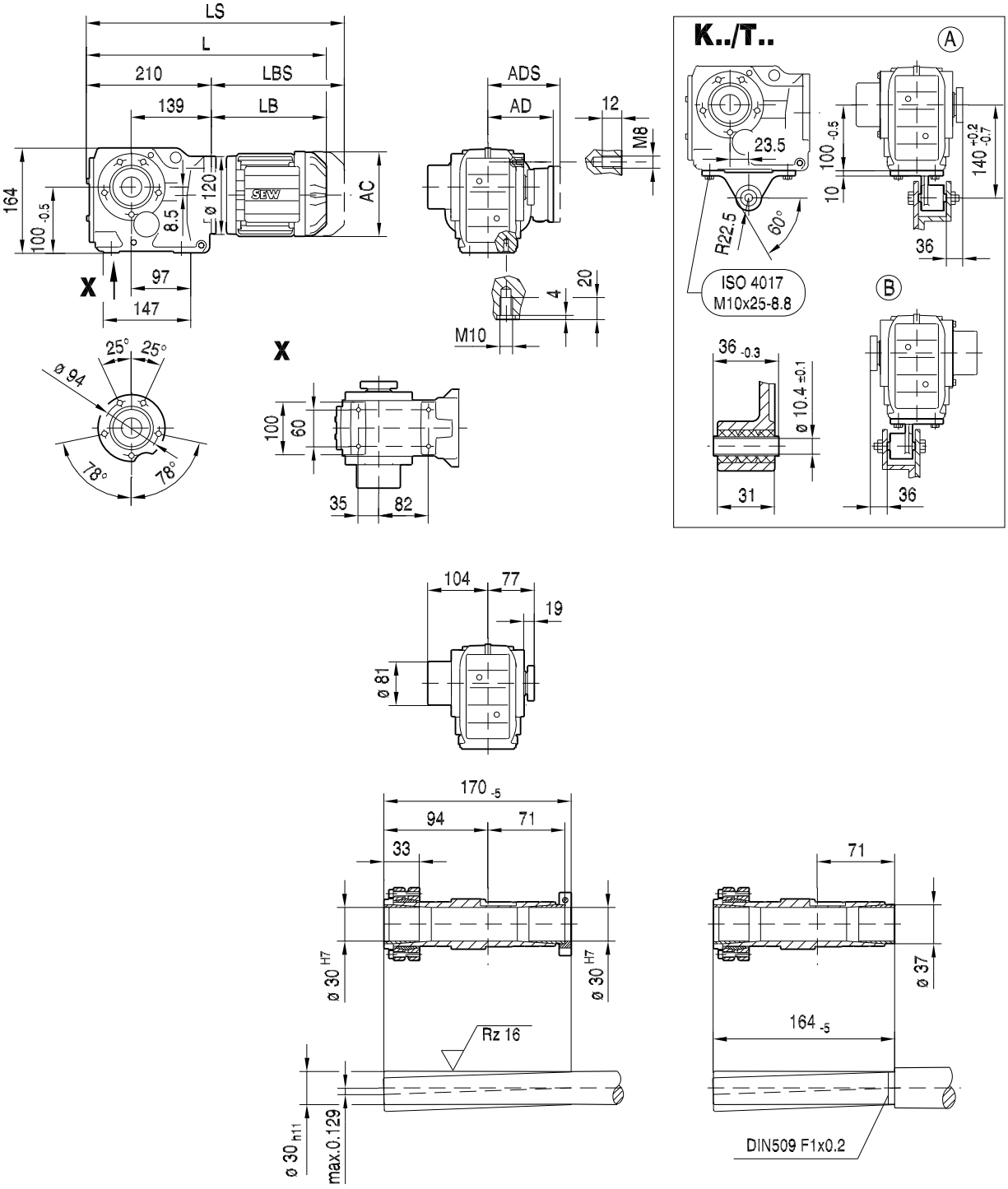
KVZ37..



(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	401	413	438	447	478	482	502	532	562
LS	456	480	505	528	559	575	595	625	655
LB	191	203	228	237	268	272	292	322	352
LBS	246	270	295	318	349	365	385	415	445

33 145 00 09

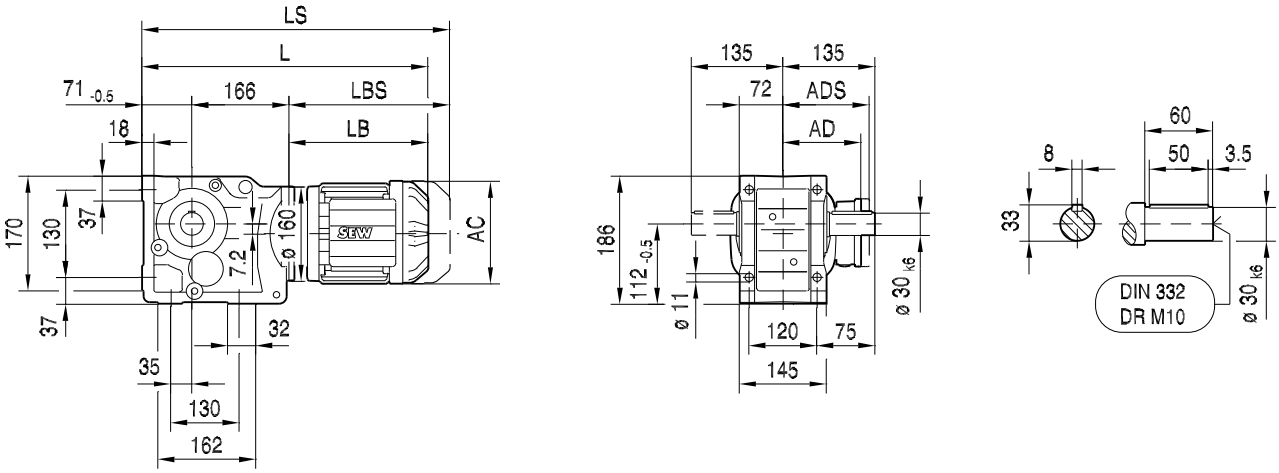
KT37..



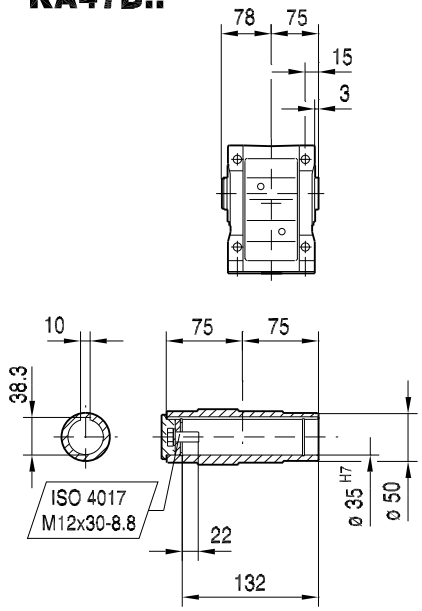
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	401	413	438	447	478	482	502	532	562
LS	456	480	505	528	559	575	595	625	655
LB	191	203	228	237	268	272	292	322	352
LBS	246	270	295	318	349	365	385	415	445

33 146 00 09

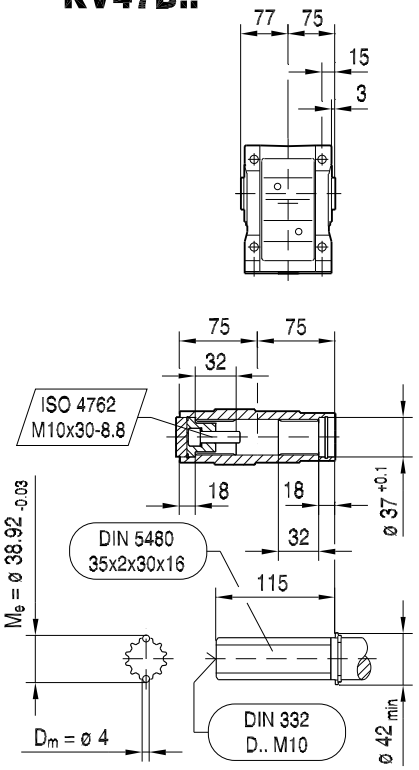
K47..



KA47B..



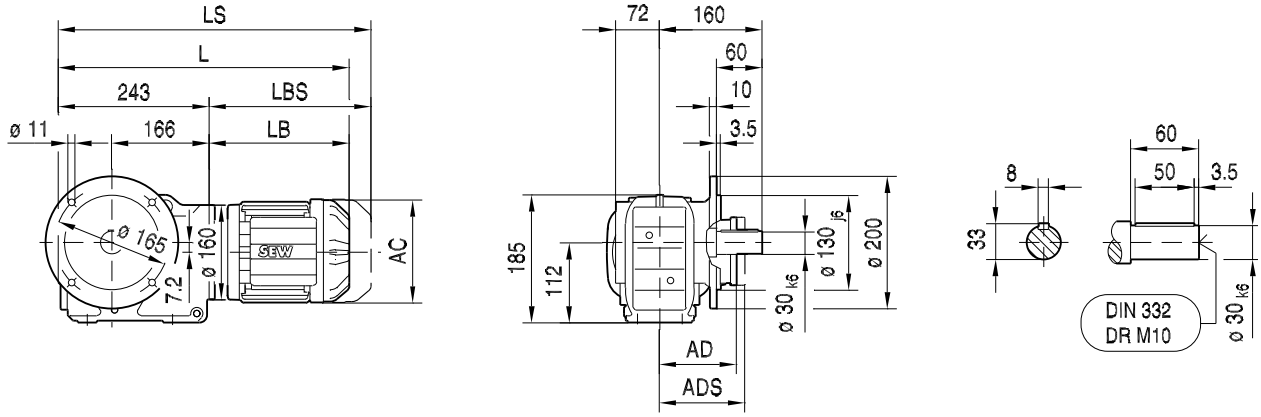
KV47B..



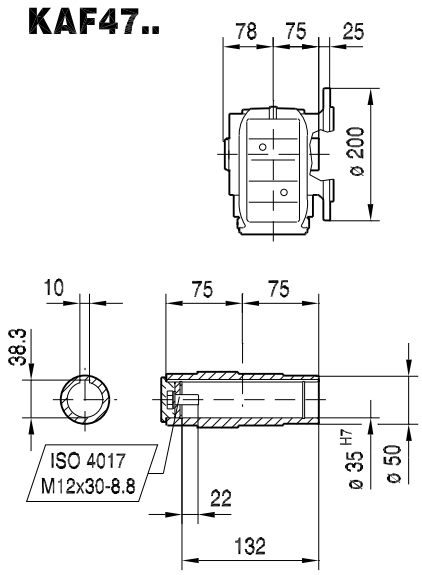
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	422	433	458	467	498	500	520	550	580
LS	477	501	526	548	579	593	613	643	673
LB	185	196	221	230	261	263	283	313	343
LBS	240	264	289	311	342	356	376	406	436

33 147 00 09

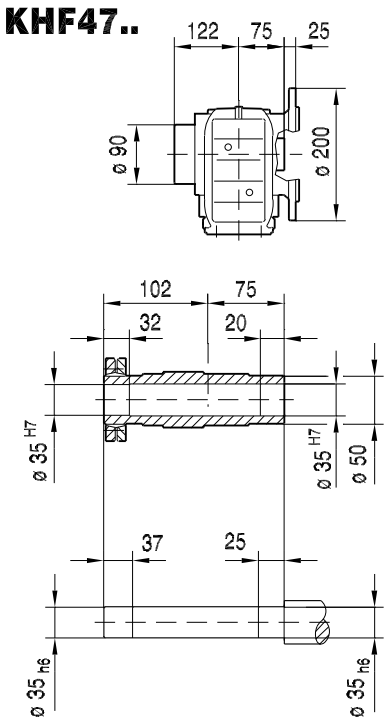
KF47..



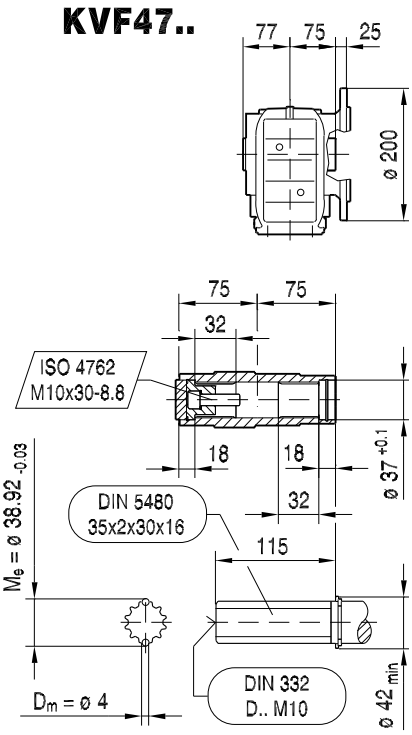
KAF47..



KHF47..



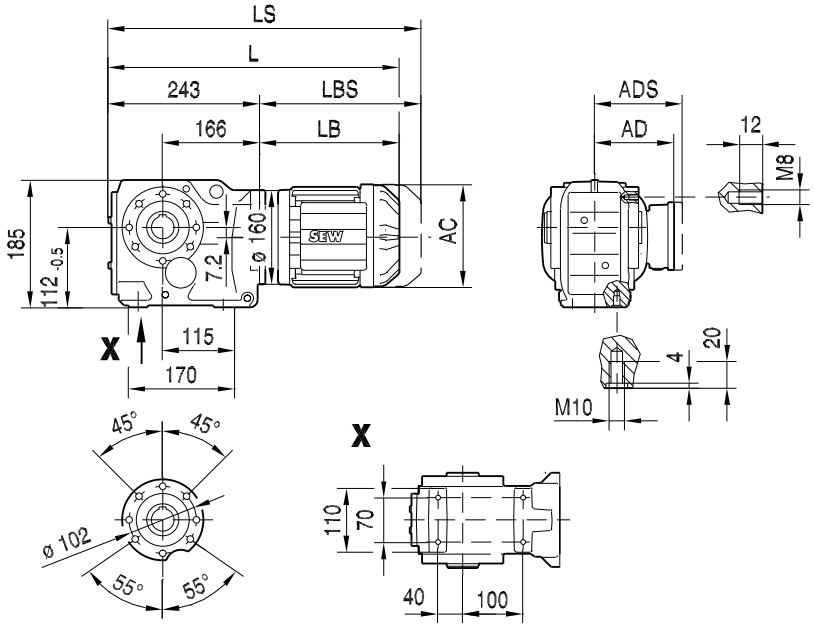
KVF47..

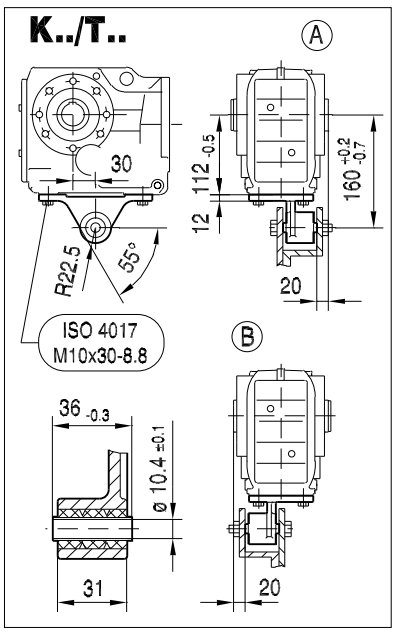


(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	428	439	464	473	504	506	526	556	586
LS	483	507	532	554	585	599	619	649	679
LB	185	196	221	230	261	263	283	313	343
LBS	240	264	289	311	342	356	376	406	436

33 148 00 09

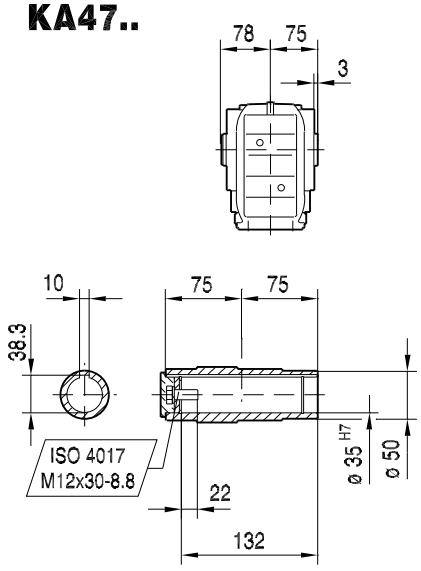
KA47..



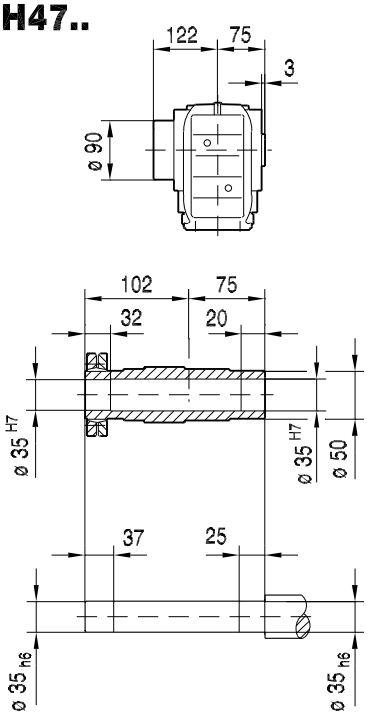


10

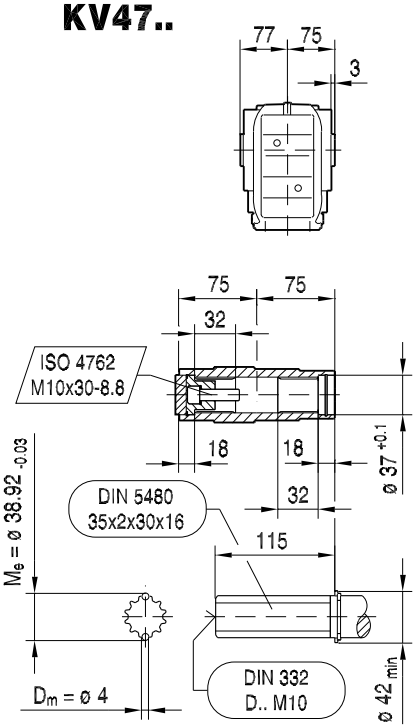
KA47..



KH47..



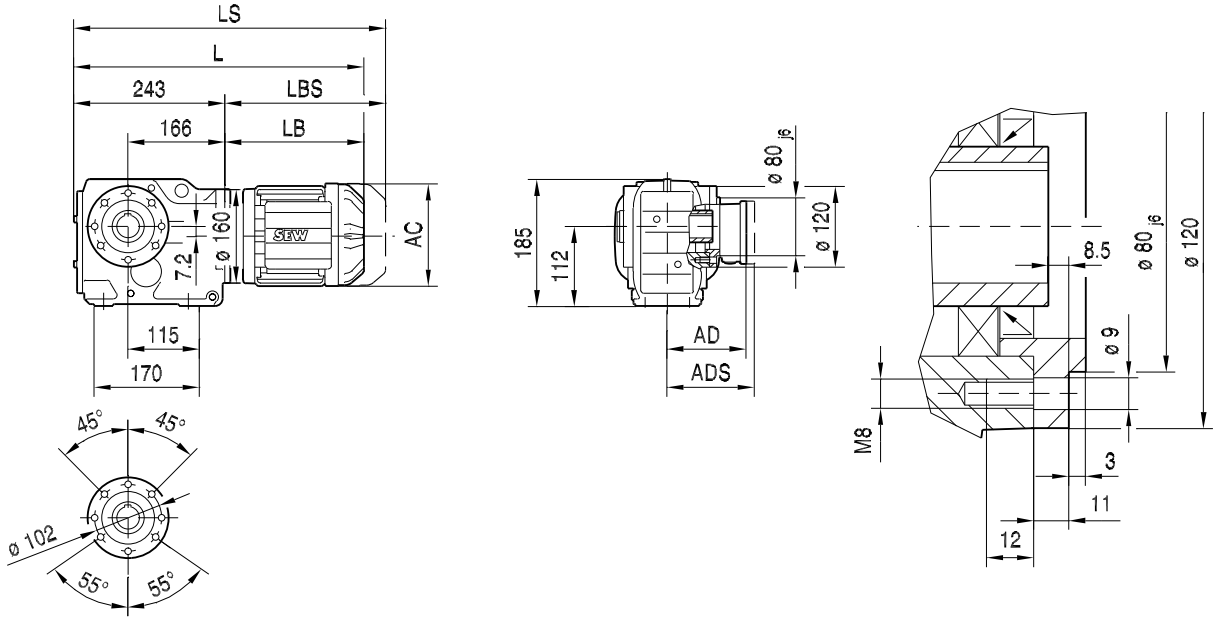
KV47..



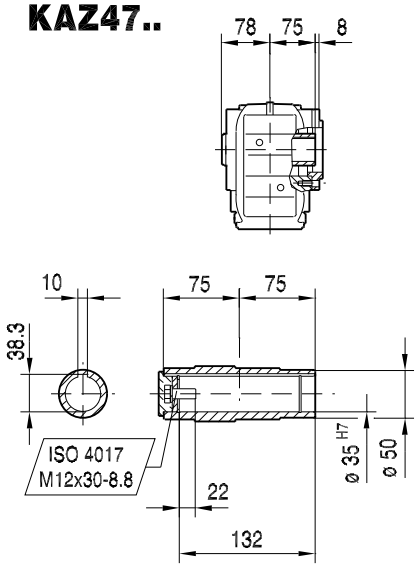
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	428	439	464	473	504	506	526	556	586
LS	483	507	532	554	585	599	619	649	679
LB	185	196	221	230	261	263	283	313	343
LBS	240	264	289	311	342	356	376	406	436

33 149 00 09

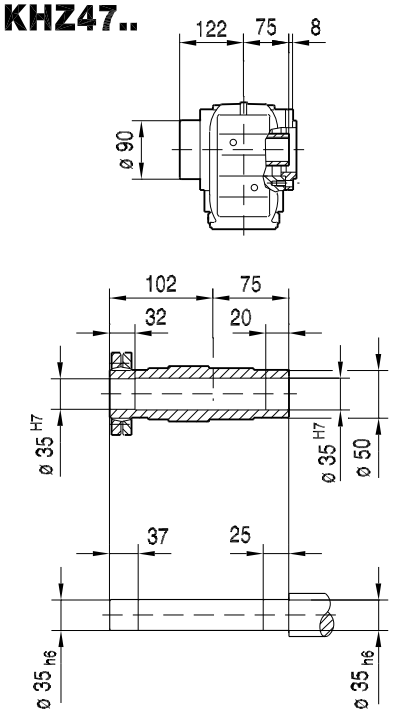
KAZ47..



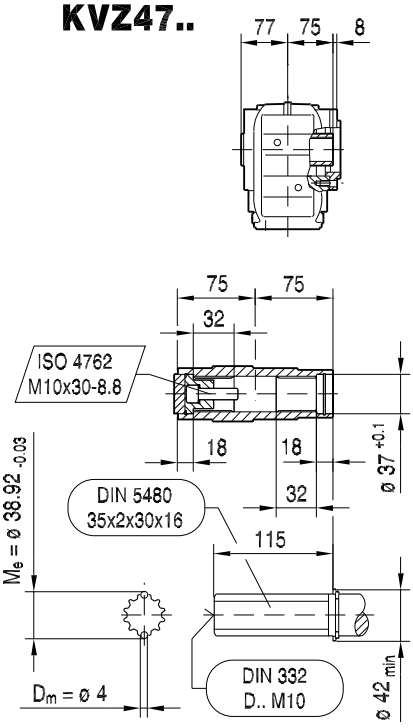
KAZ47..



KHZ47..



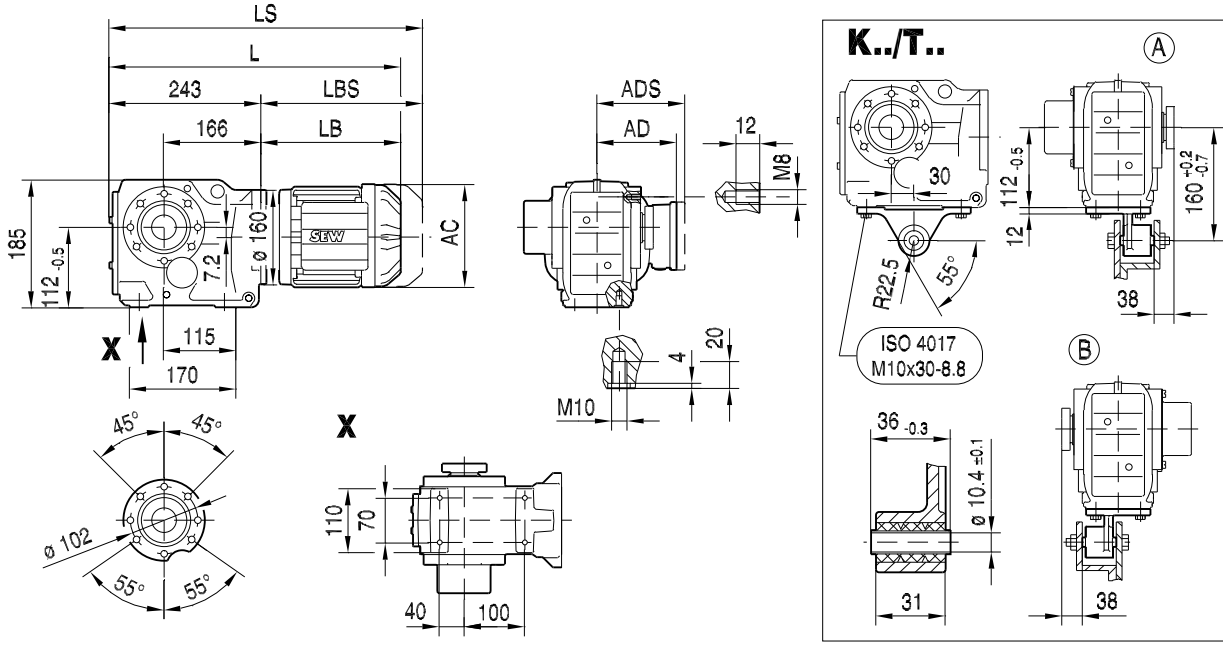
KVZ47..

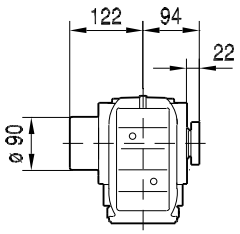


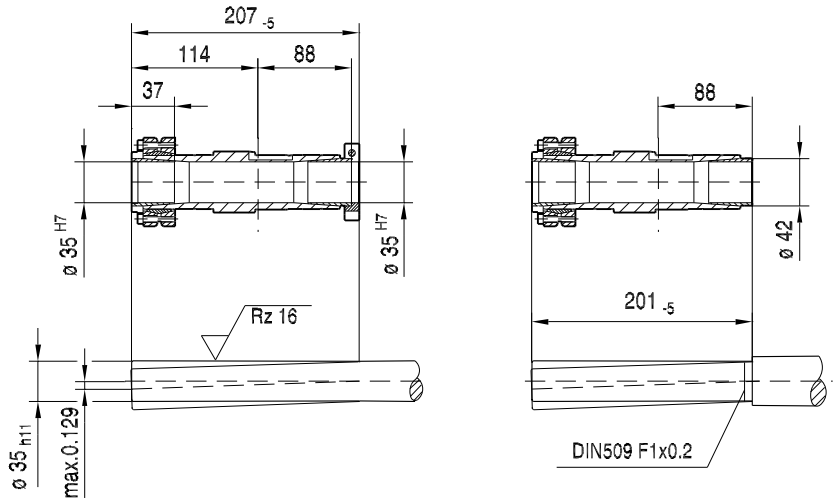
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	428	439	464	473	504	506	526	556	586
LS	483	507	532	554	585	599	619	649	679
LB	185	196	221	230	261	263	283	313	343
LBS	240	264	289	311	342	356	376	406	436

33 150 00 09

KT47..



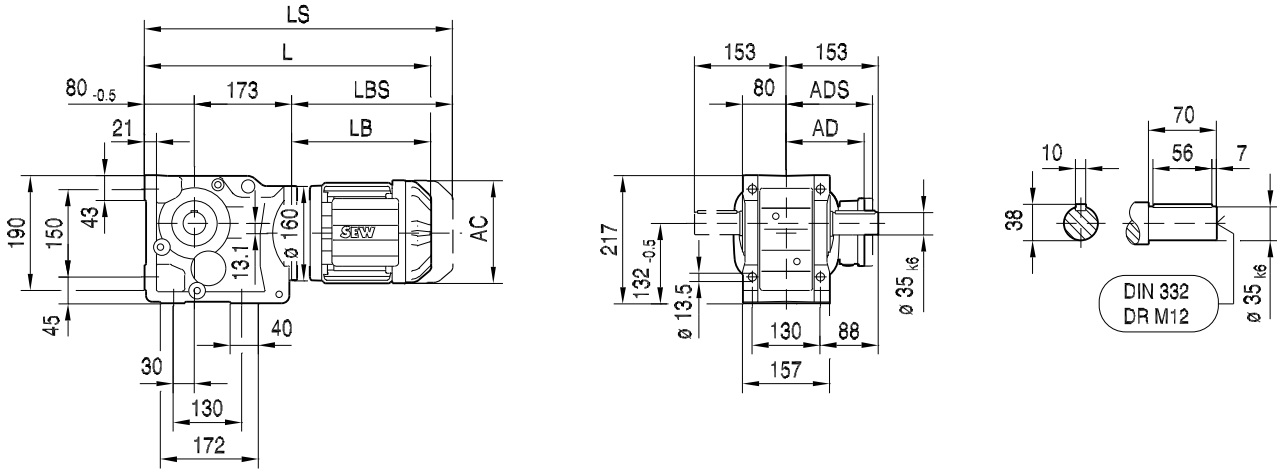




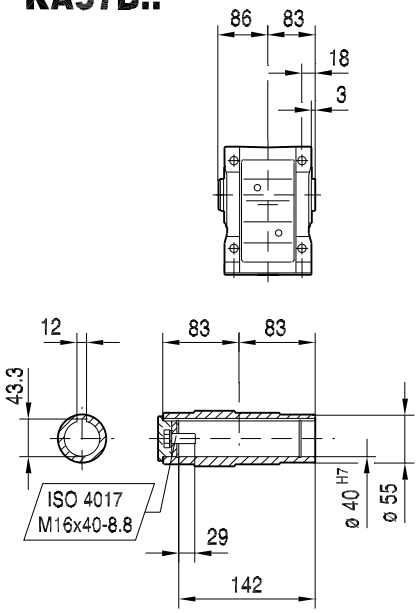
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	428	439	464	473	504	506	526	556	586
LS	483	507	532	554	585	599	619	649	679
LB	185	196	221	230	261	263	283	313	343
LBS	240	264	289	311	342	356	376	406	436

33 151 00 09

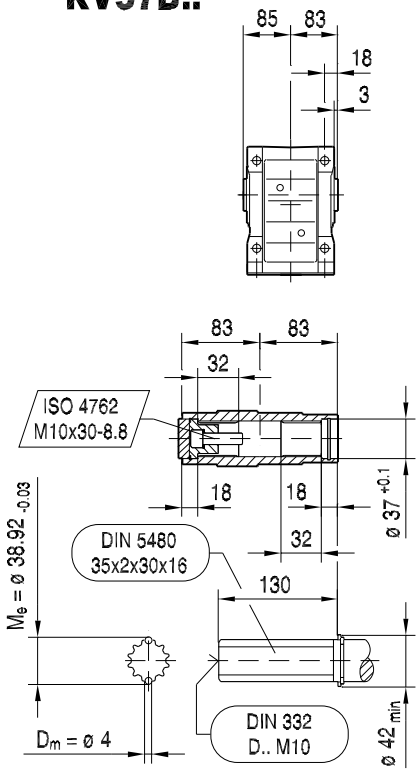
K57..



KA57B..



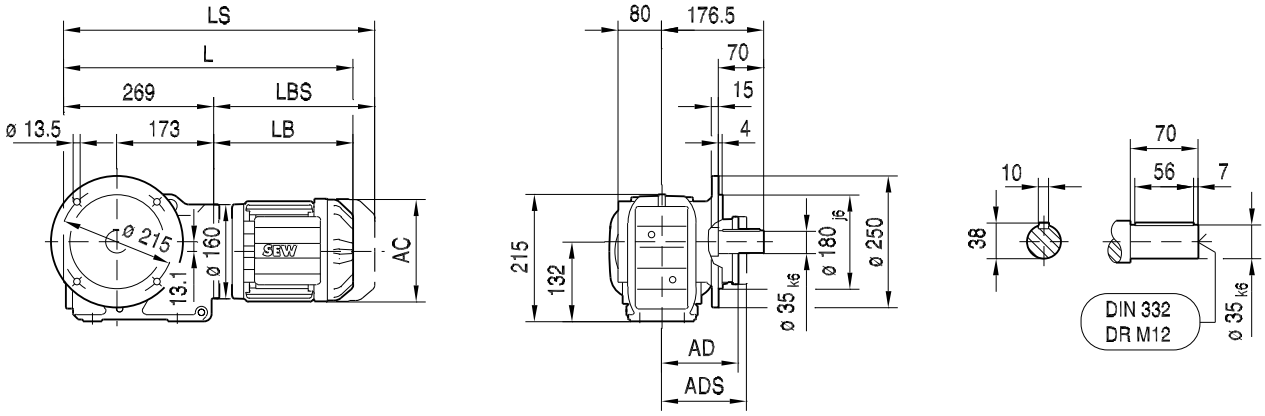
KV57B..



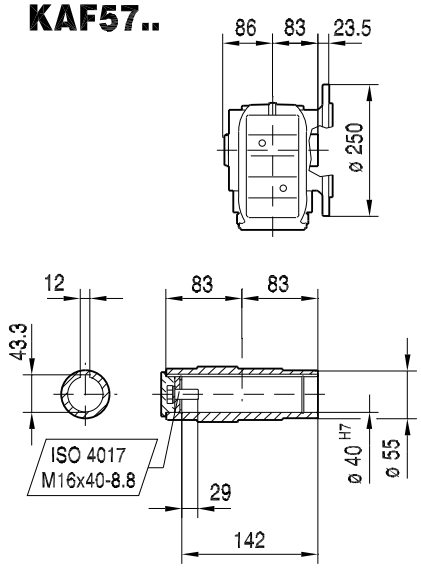
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S
AC	132	139	139	156	156	179	179	197	197	221
AD	105	129	129	139	139	150	150	158	158	172
ADS	105	129	129	139	139	150	150	158	158	172
L	438	449	474	483	514	516	536	566	596	643
LS	493	517	542	564	595	609	629	659	689	755
LB	185	196	221	230	261	263	283	313	343	390
LBS	240	264	289	311	342	356	376	406	436	502

33 152 00 09

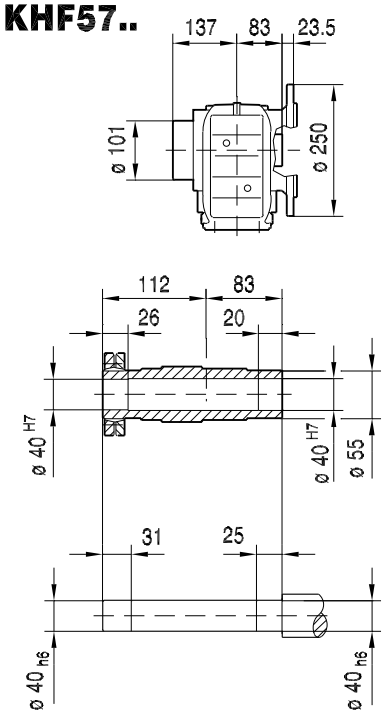
KF57..



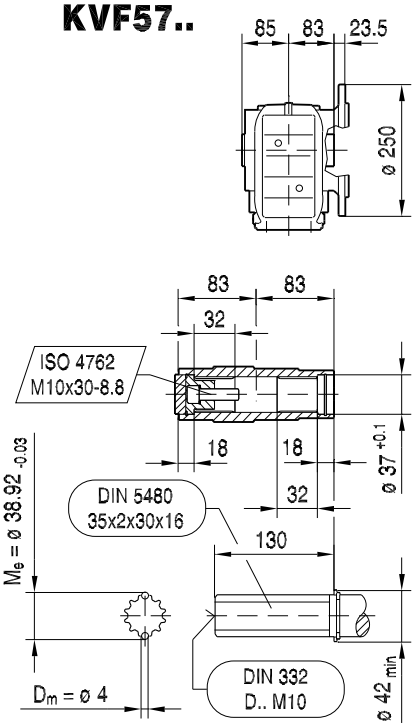
KAF57..



KHF57..



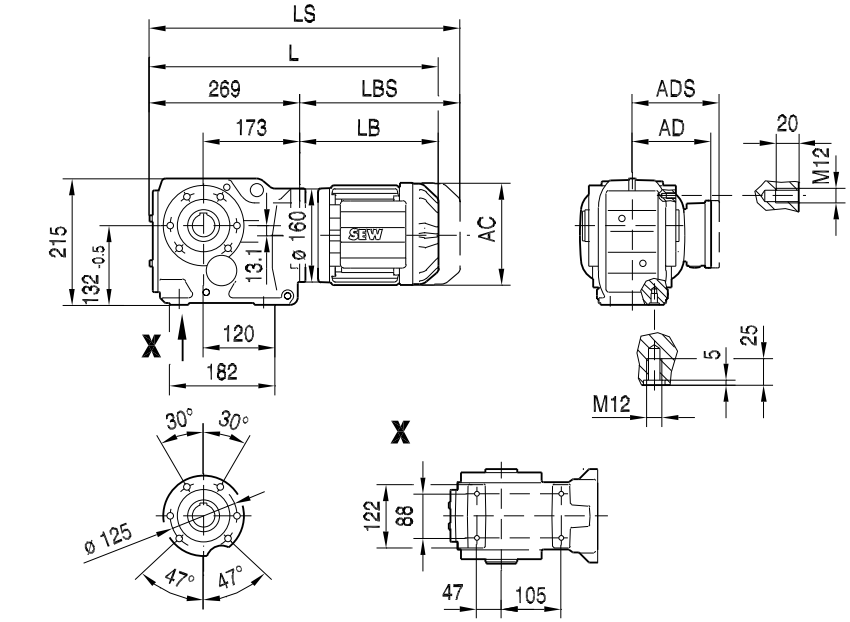
KVF57..

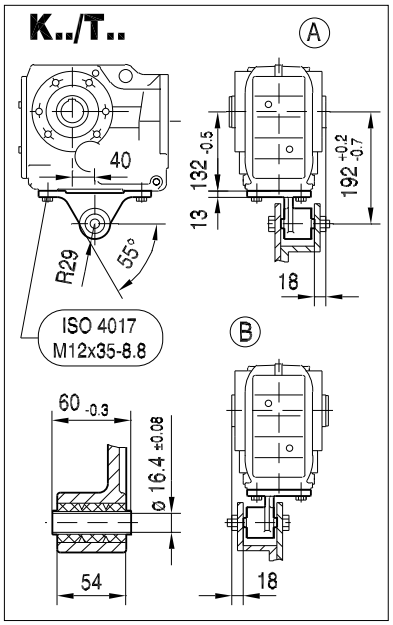


(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S
AC	132	139	139	156	156	179	179	197	197	221
AD	105	129	129	139	139	150	150	158	158	172
ADS	105	129	129	139	139	150	150	158	158	172
L	454	465	490	499	530	532	552	582	612	659
LS	509	533	558	580	611	625	645	675	705	771
LB	185	196	221	230	261	263	283	313	343	390
LBS	240	264	289	311	342	356	376	406	436	502

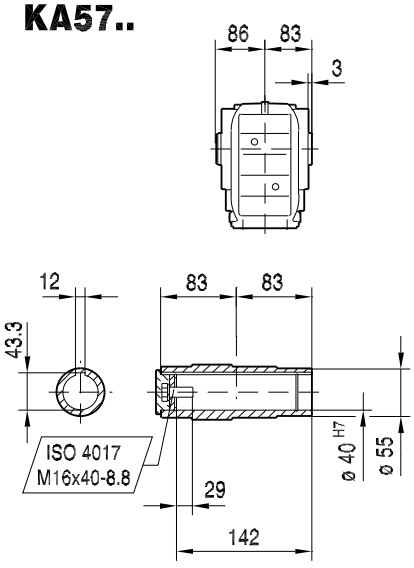
33 153 00 09

KA57..

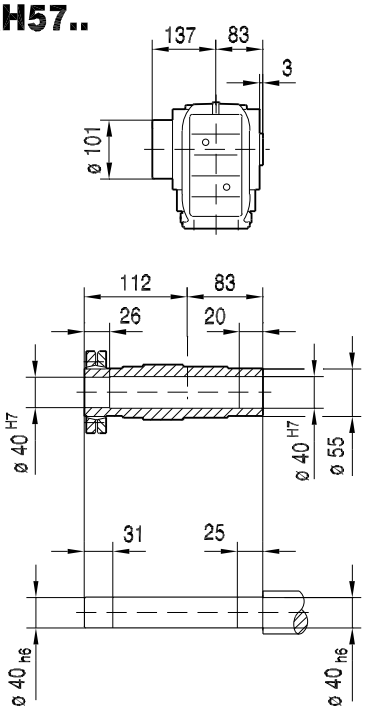




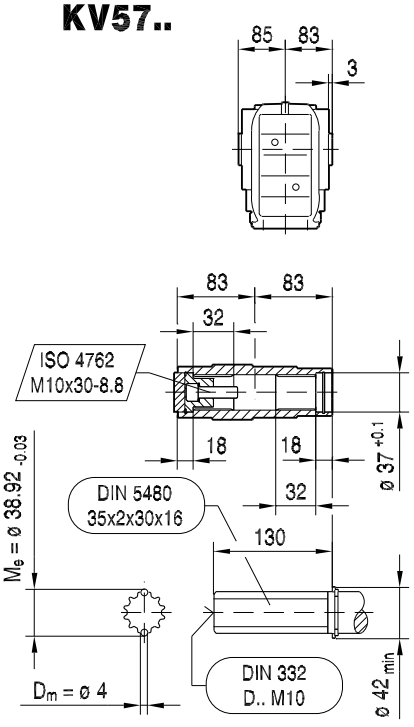
KA57..



KH57..



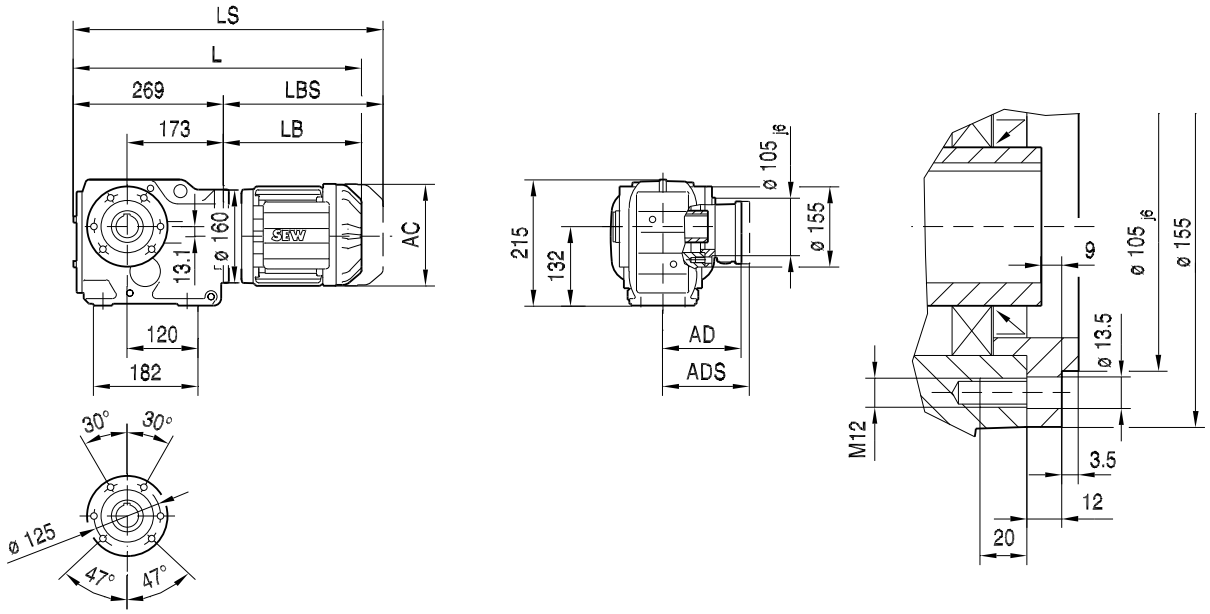
KV57..



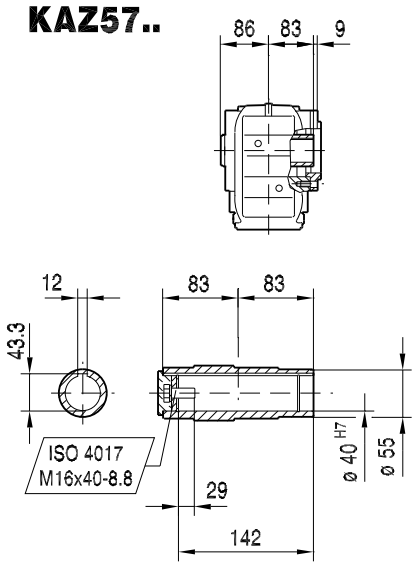
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S
AC	132	139	139	156	156	179	179	197	197	221
AD	105	129	129	139	139	150	150	158	158	172
ADS	105	129	129	139	139	150	150	158	158	172
L	454	465	490	499	530	532	552	582	612	659
LS	509	533	558	580	611	625	645	675	705	771
LB	185	196	221	230	261	263	283	313	343	390
LBS	240	264	289	311	342	356	376	406	436	502

33 154 00 09

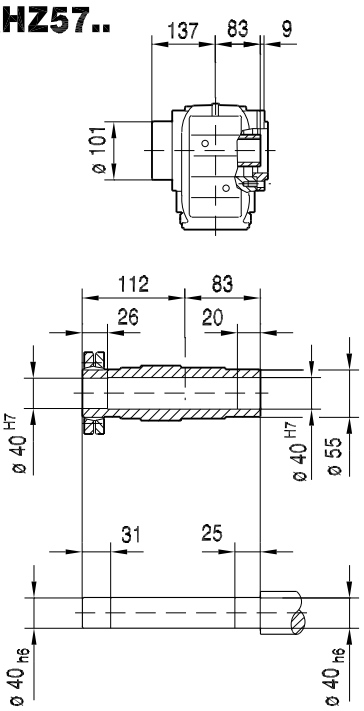
KAZ57..



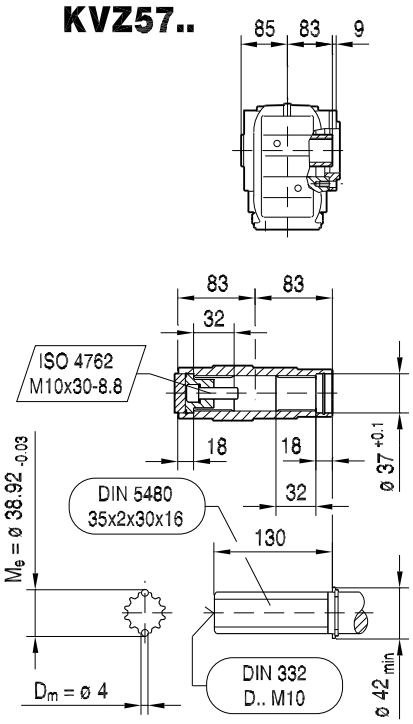
KAZ57..



KHZ57..



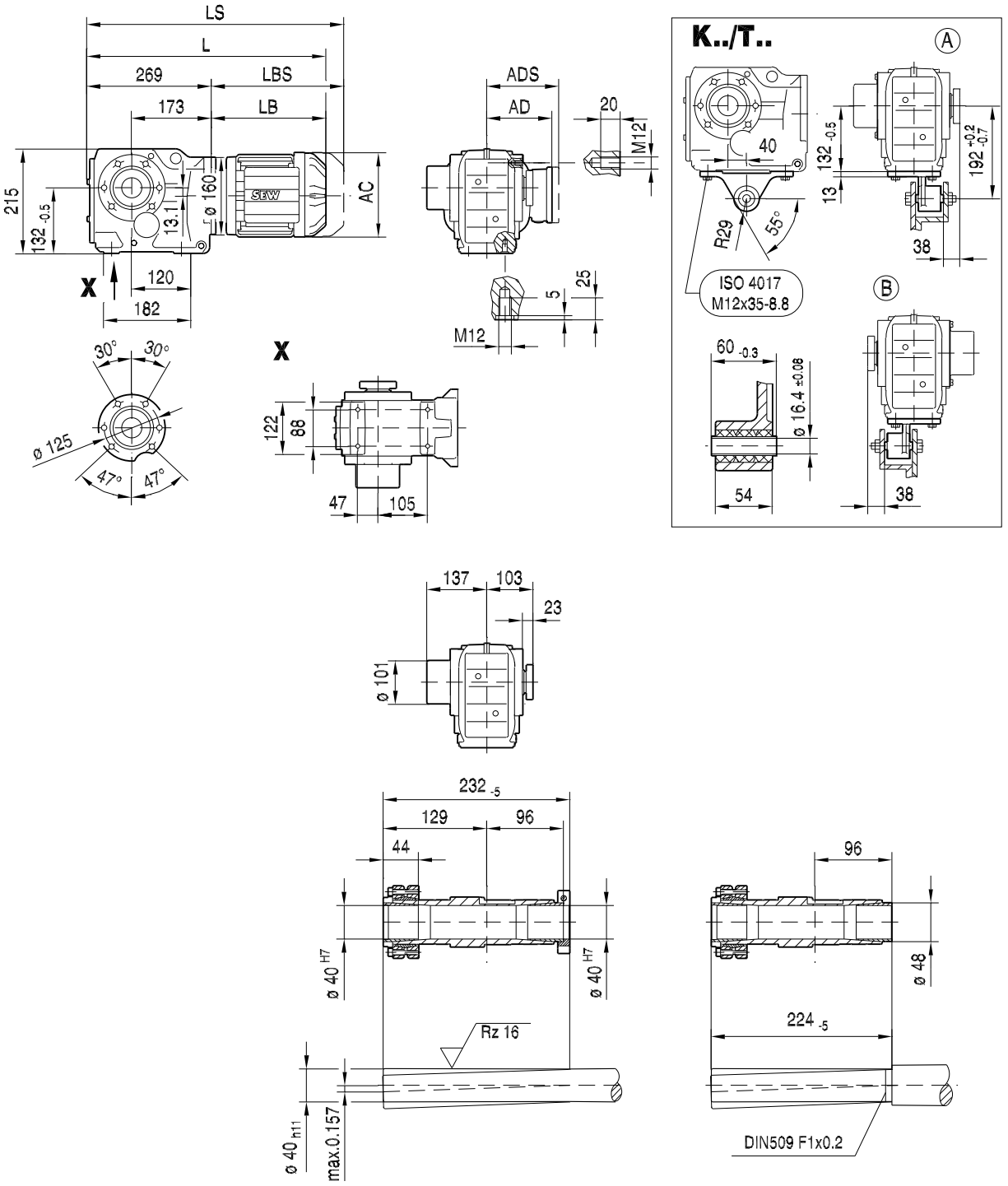
KVZ57..



(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S
AC	132	139	139	156	156	179	179	197	197	221
AD	105	129	129	139	139	150	150	158	158	172
ADS	105	129	129	139	139	150	150	158	158	172
L	454	465	490	499	530	532	552	582	612	659
LS	509	533	558	580	611	625	645	675	705	771
LB	185	196	221	230	261	263	283	313	343	390
LBS	240	264	289	311	342	356	376	406	436	502

KT57..

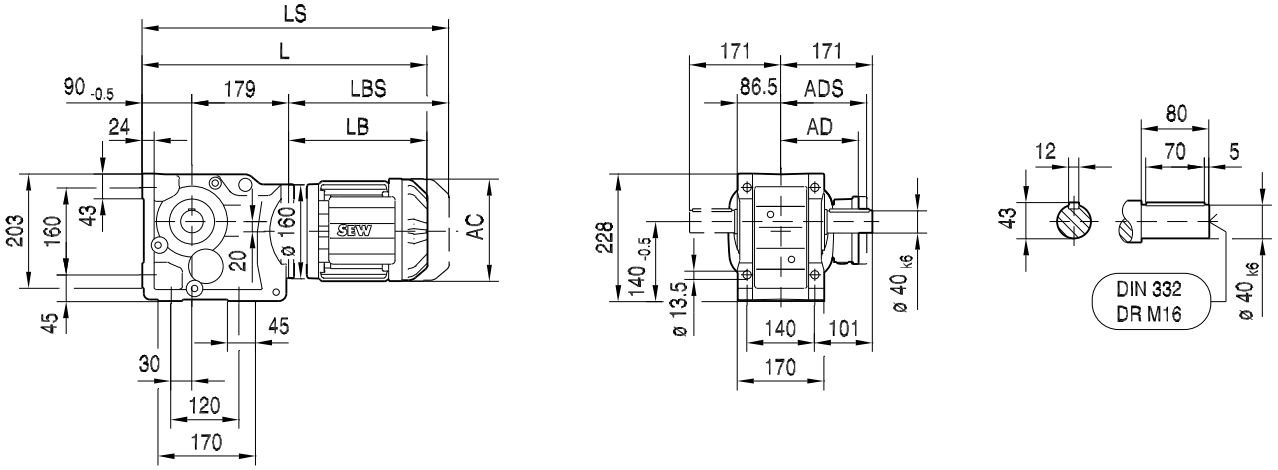
33 155 00 09



(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S
AC	132	139	139	156	156	179	179	197	197	221
AD	105	129	129	139	139	150	150	158	158	172
ADS	105	129	129	139	139	150	150	158	158	172
L	454	465	490	499	530	532	552	582	612	659
LS	509	533	558	580	611	625	645	675	705	771
LB	185	196	221	230	261	263	283	313	343	390
LBS	240	264	289	311	342	356	376	406	436	502

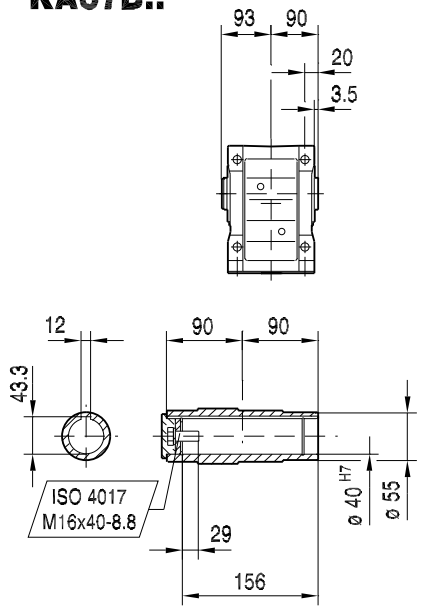
33 156 00 09

K67..

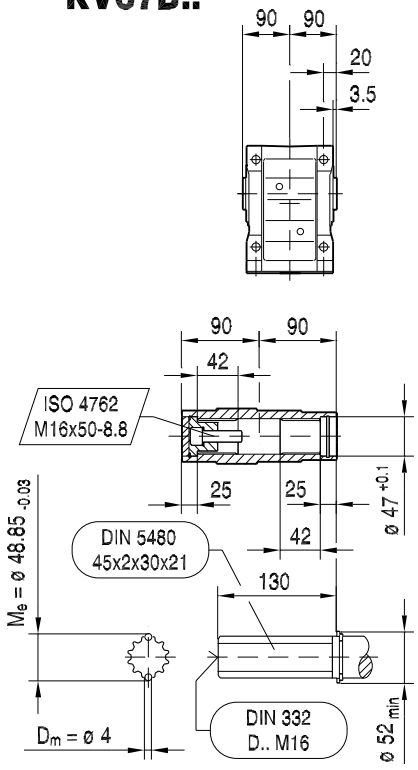


10

KA67B..



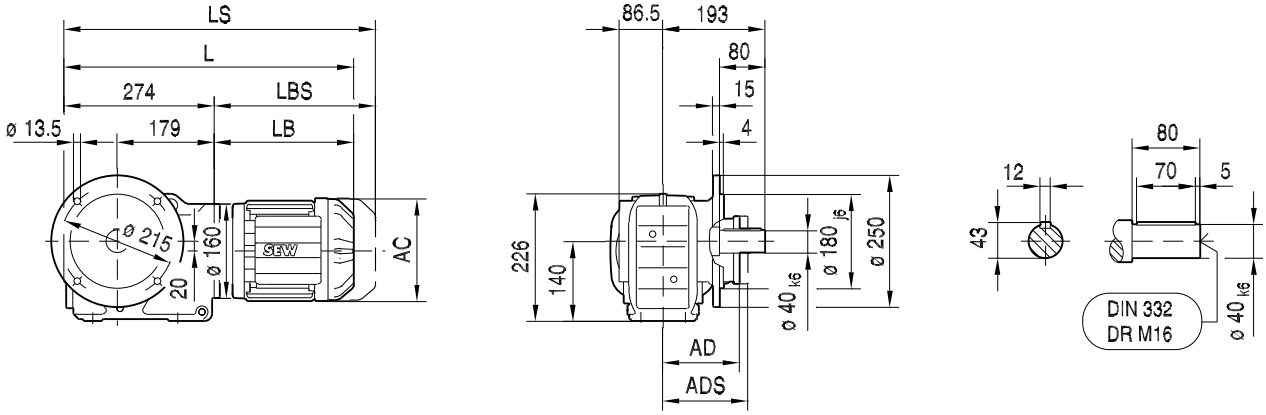
KV67B..



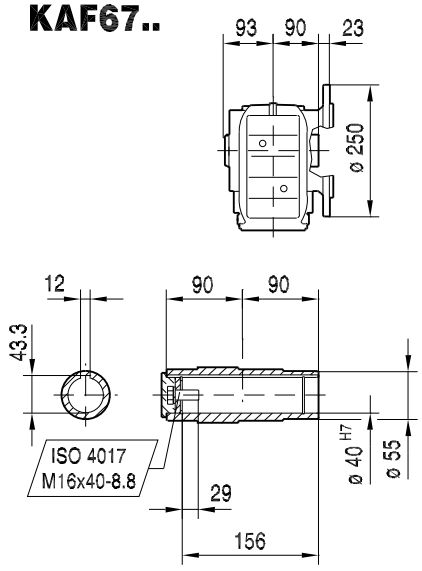
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC
AC	132	139	139	156	156	179	179	197	197	221	221
AD	105	129	129	139	139	150	150	158	158	172	172
ADS	105	129	129	139	139	150	150	158	158	172	172
L	454	465	490	499	530	532	552	582	612	659	709
LS	509	533	558	580	611	625	645	675	705	771	821
LB	185	196	221	230	261	263	283	313	343	390	440
LBS	240	264	289	311	342	356	376	406	436	502	552

33 157 00 09

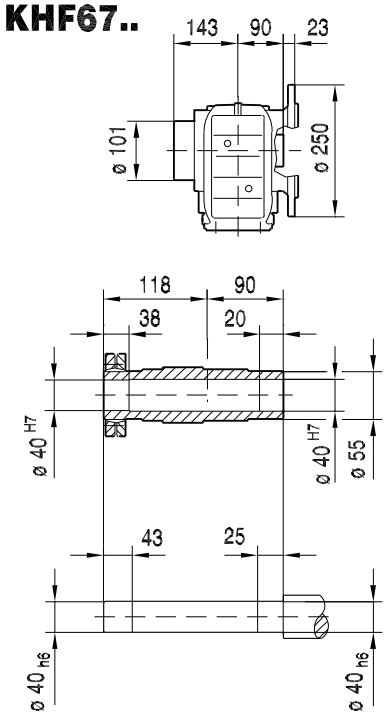
KF67..



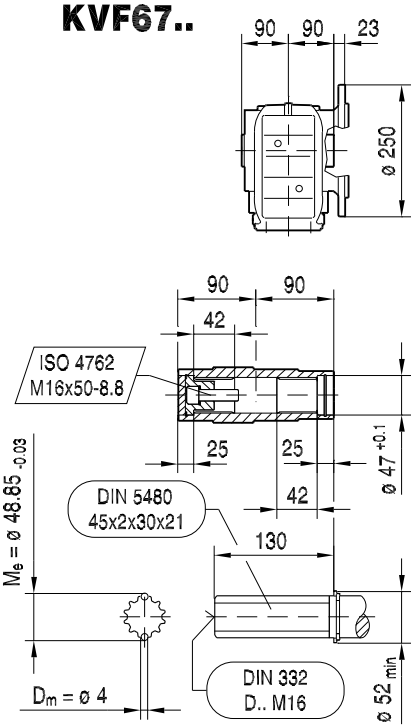
KAF67..



KHF67..



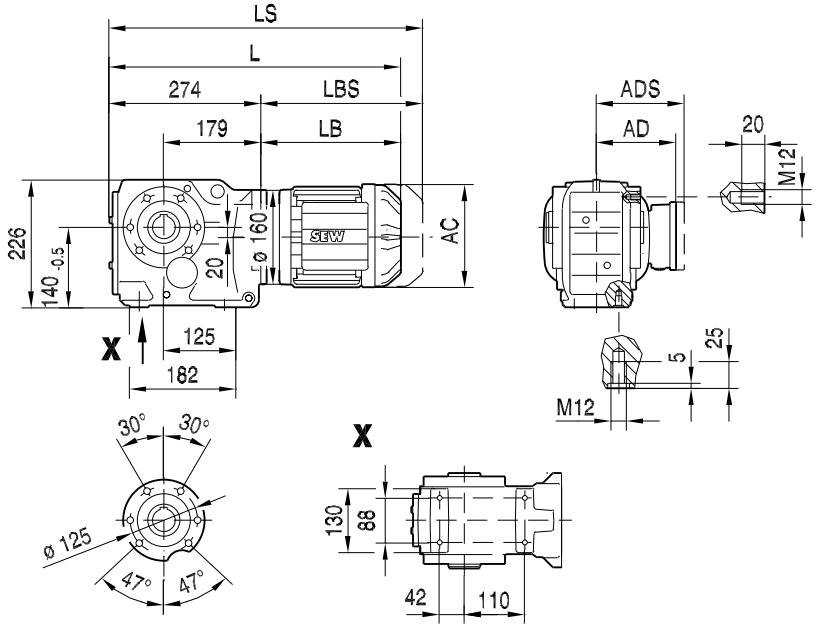
KVF67..



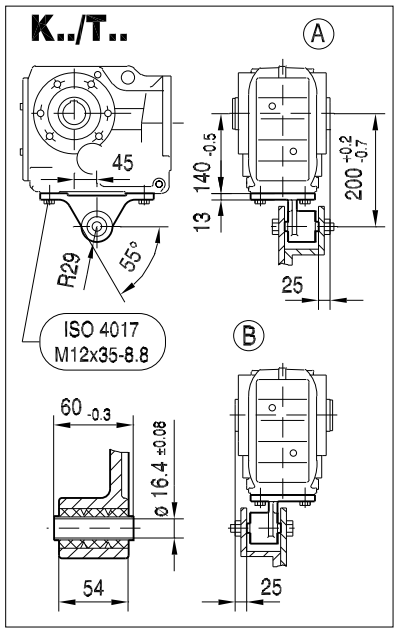
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC
AC	132	139	139	156	156	179	179	197	197	221	221
AD	105	129	129	139	139	150	150	158	158	172	172
ADS	105	129	129	139	139	150	150	158	158	172	172
L	459	470	495	504	535	537	557	587	617	664	714
LS	514	538	563	585	616	630	650	680	710	776	826
LB	185	196	221	230	261	263	283	313	343	390	440
LBS	240	264	289	311	342	356	376	406	436	502	552

33 158 00 09

KA67..

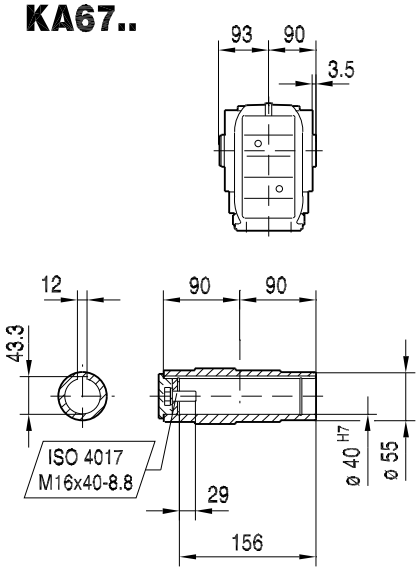


K../T..

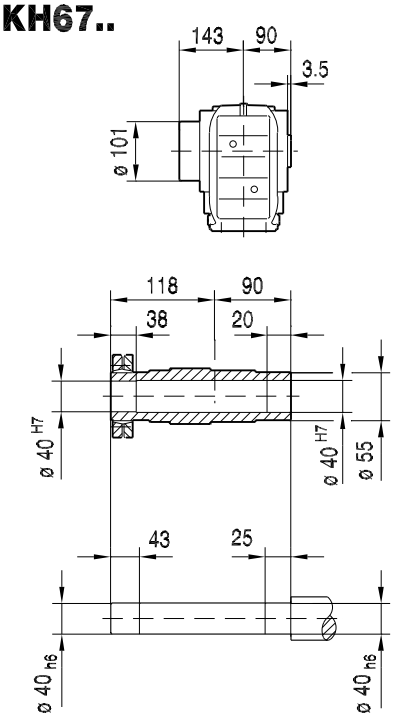


10

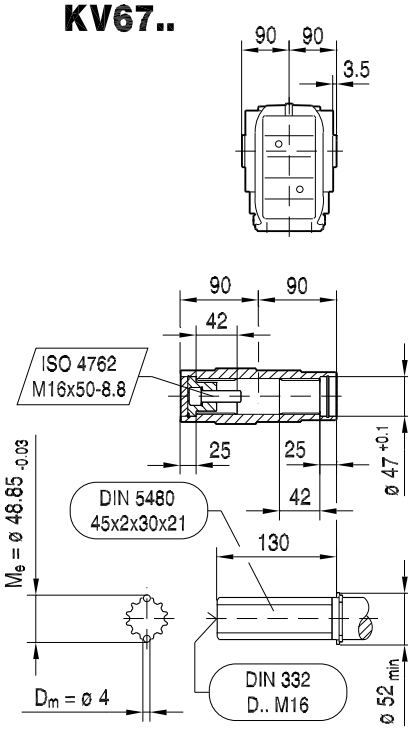
KA67..



KH67..



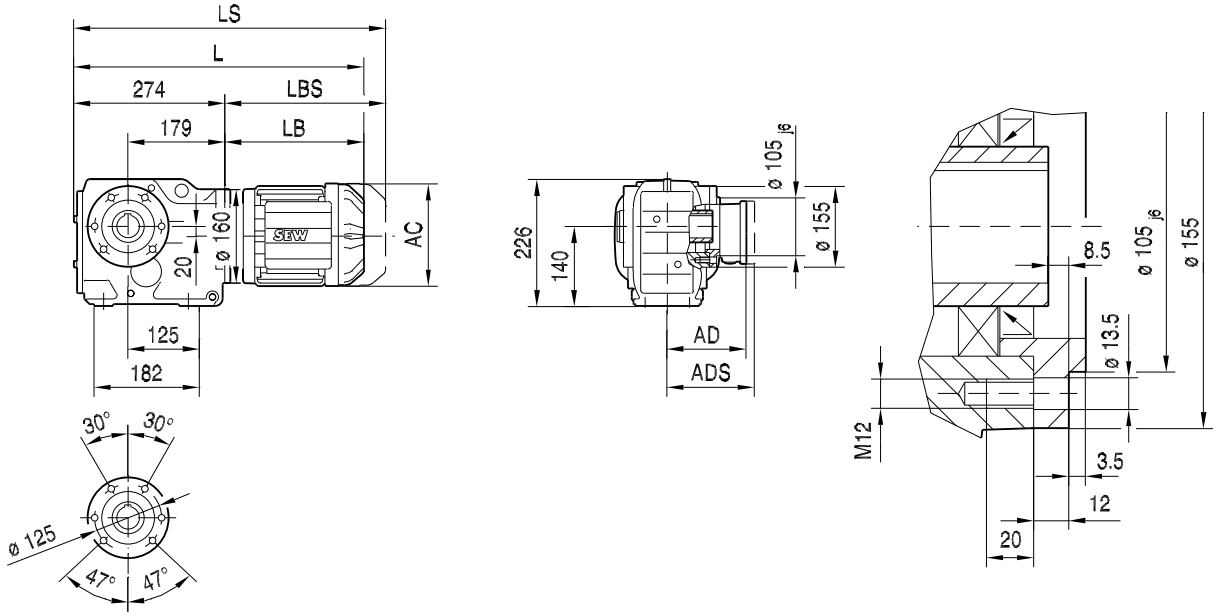
KV67..



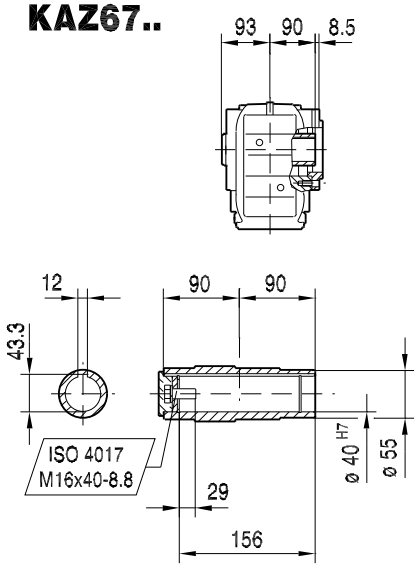
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC
AC	132	139	139	156	156	179	179	197	197	221	221
AD	105	129	129	139	139	150	150	158	158	172	172
ADS	105	129	129	139	139	150	150	158	158	172	172
L	459	470	495	504	535	537	557	587	617	664	714
LS	514	538	563	585	616	630	650	680	710	776	826
LB	185	196	221	230	261	263	283	313	343	390	440
LBS	240	264	289	311	342	356	376	406	436	502	552

33 159 00 09

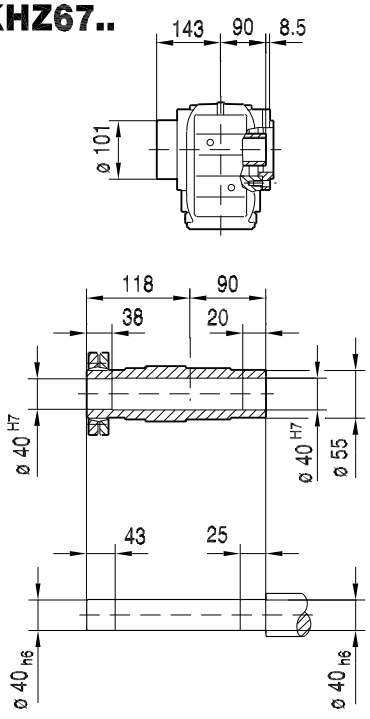
KAZ67..



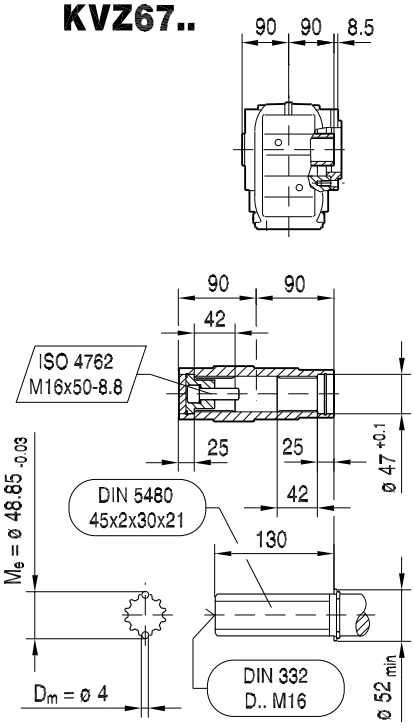
KAZ67..



KHZ67..



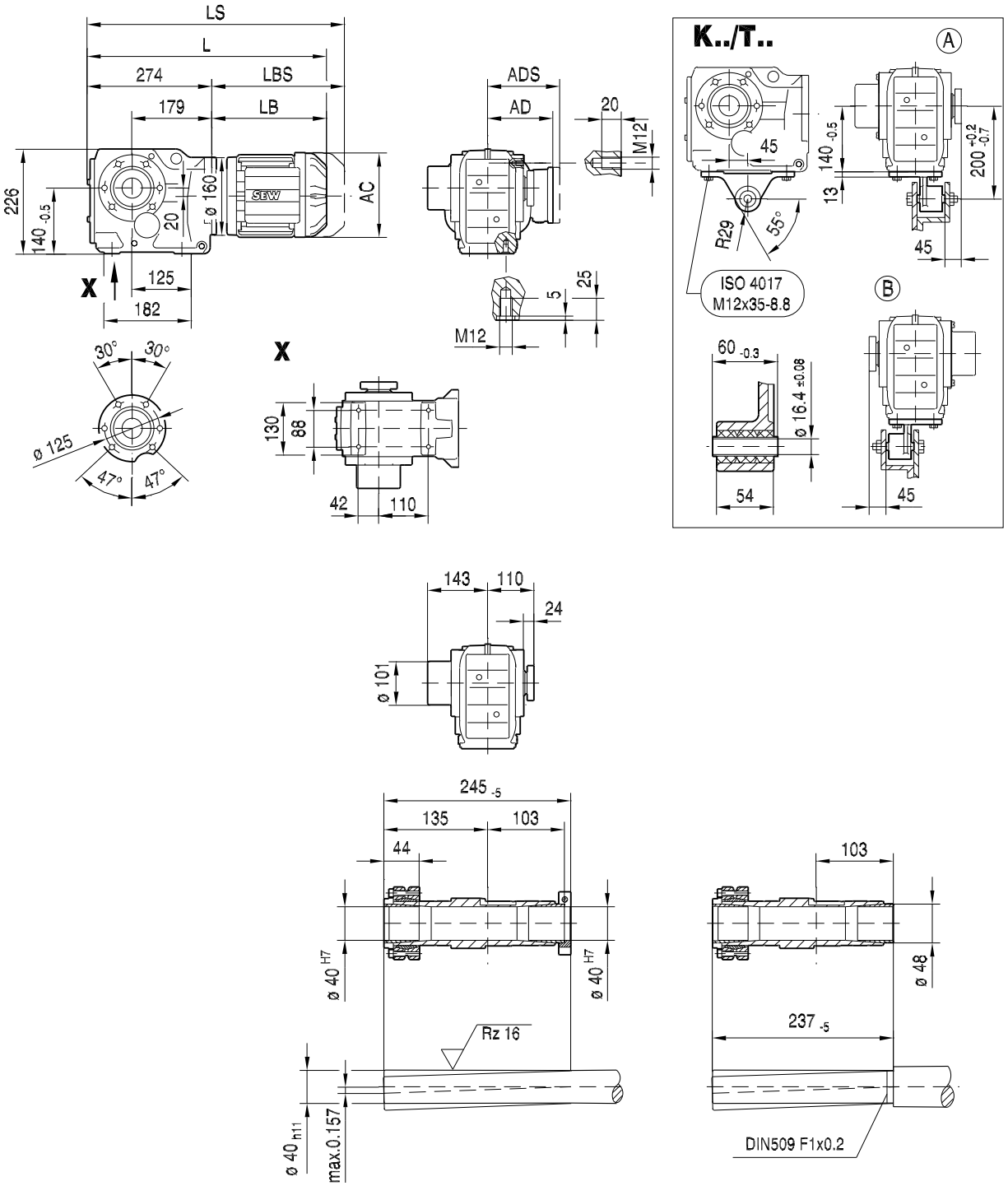
KVZ67..



(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC
AC	132	139	139	156	156	179	179	197	197	221	221
AD	105	129	129	139	139	150	150	158	158	172	172
ADS	105	129	129	139	139	150	150	158	158	172	172
L	459	470	495	504	535	537	557	587	617	664	714
LS	514	538	563	585	616	630	650	680	710	776	826
LB	185	196	221	230	261	263	283	313	343	390	440
LBS	240	264	289	311	342	356	376	406	436	502	552

KT67..

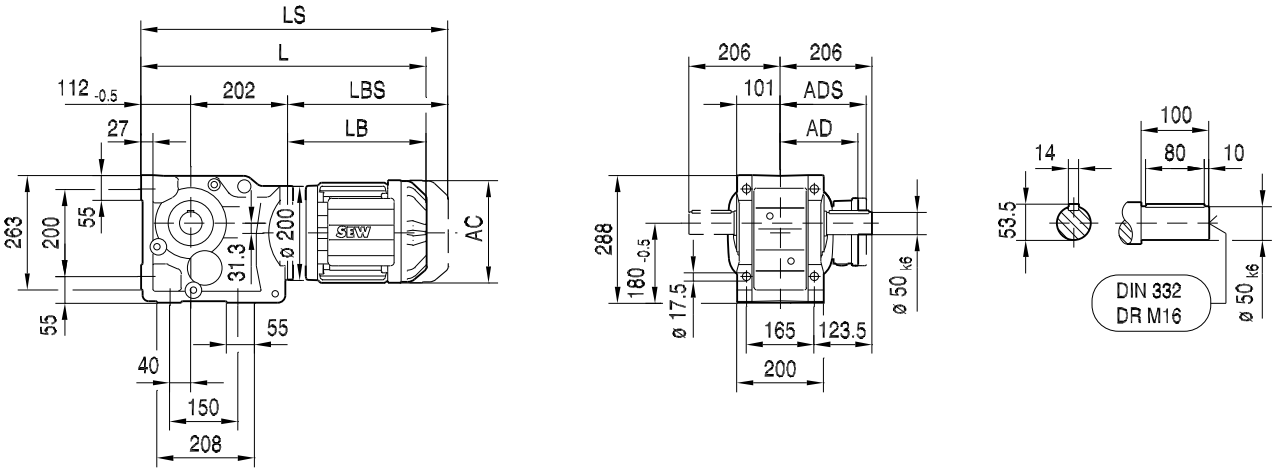
33 160 00 09



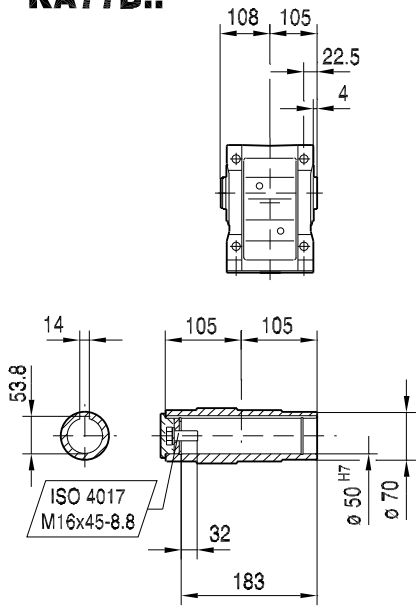
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC
AC	132	139	139	156	156	179	179	197	197	221	221
AD	105	129	129	139	139	150	150	158	158	172	172
ADS	105	129	129	139	139	150	150	158	158	172	172
L	459	470	495	504	535	537	557	587	617	664	714
LS	514	538	563	585	616	630	650	680	710	776	826
LB	185	196	221	230	261	263	283	313	343	390	440
LBS	240	264	289	311	342	356	376	406	436	502	552

33 161 00 09

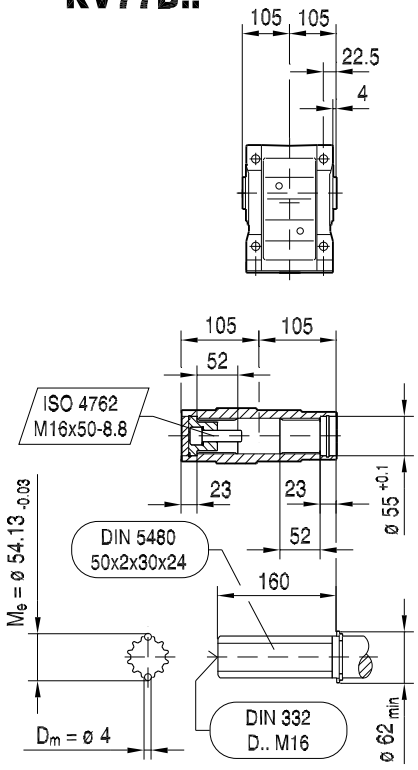
K77..



KA77B..



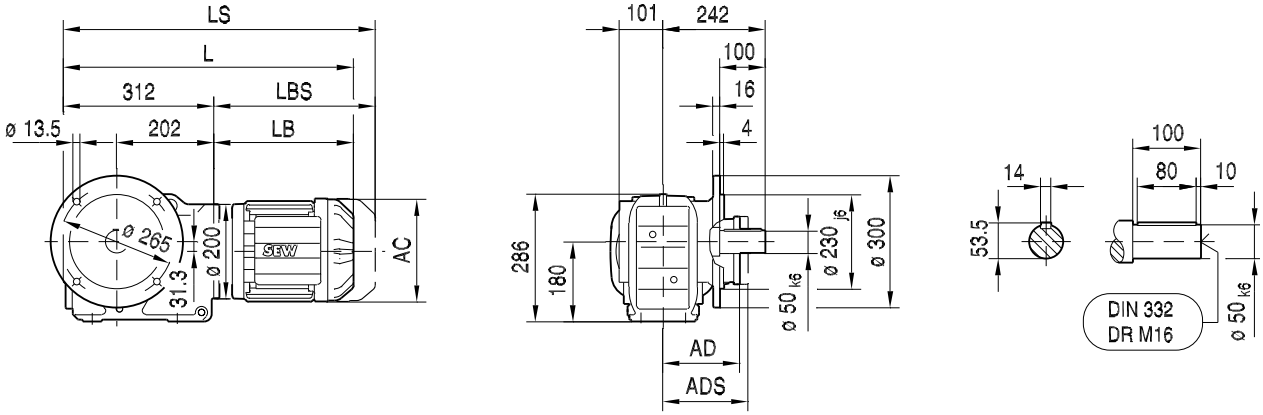
KV77B..



(→ 127)	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..
AC	139	156	156	179	179	197	197	221	221	270
AD	129	139	139	150	150	158	158	172	172	228
ADS	129	139	139	150	150	158	158	172	172	228
L	528	537	568	570	590	620	650	693	743	784
LS	596	618	649	663	683	713	743	805	855	921
LB	214	223	254	256	276	306	336	379	429	470
LBS	282	304	335	349	369	399	429	491	541	607

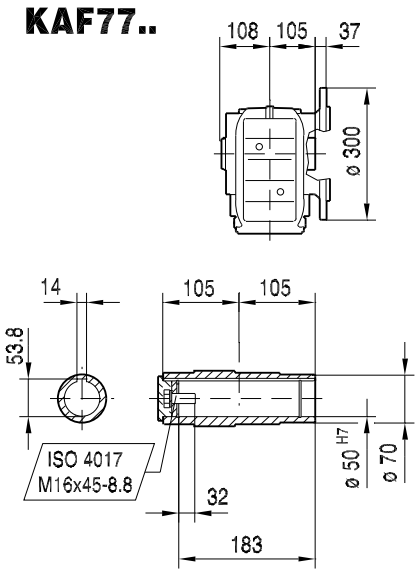
33 162 00 09

KF77..

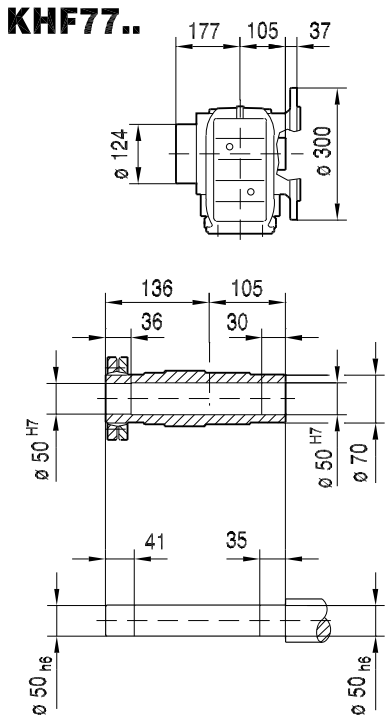


10

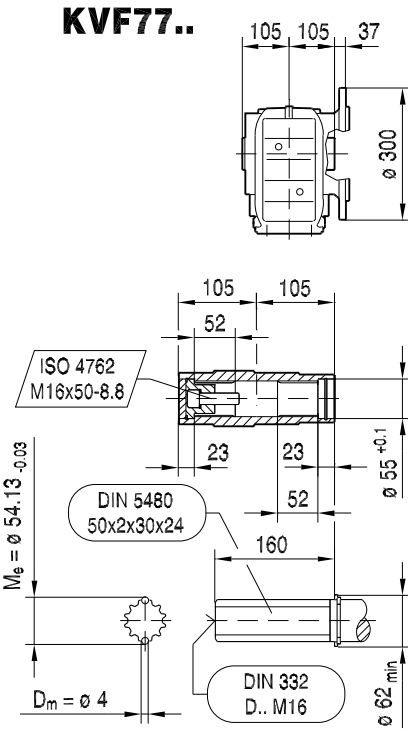
KAF77..



KHF77..



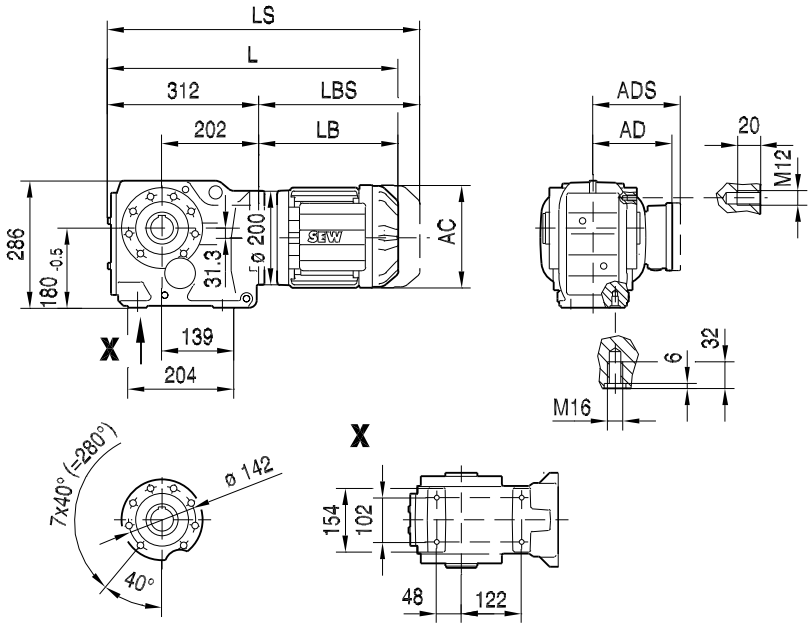
KVF77..

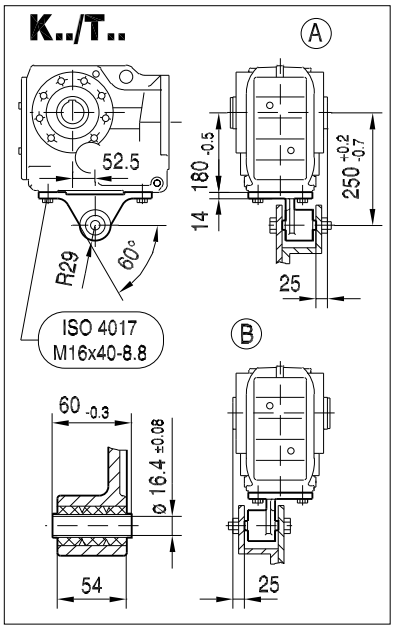


(→ 127)	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..
AC	139	156	156	179	179	197	197	221	221	270
AD	129	139	139	150	150	158	158	172	172	228
ADS	129	139	139	150	150	158	158	172	172	228
L	526	535	566	568	588	618	648	691	741	782
LS	594	616	647	661	681	711	741	803	853	919
LB	214	223	254	256	276	306	336	379	429	470
LBS	282	304	335	349	369	399	429	491	541	607

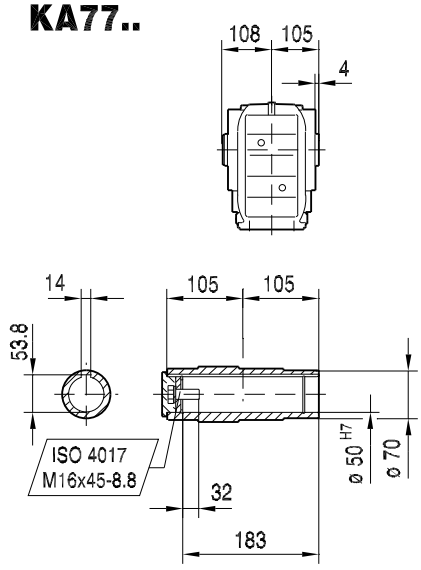
33 163 00 09

KA77..

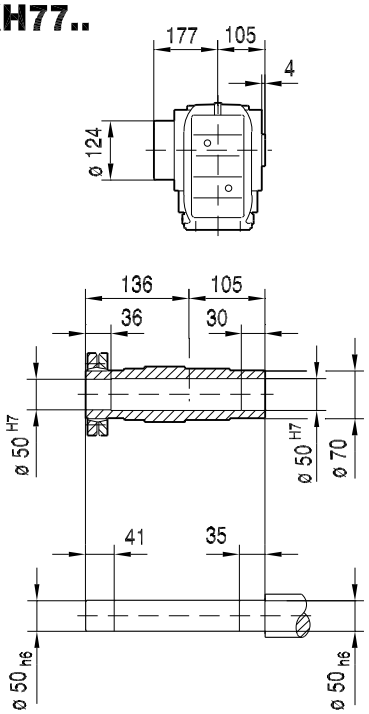




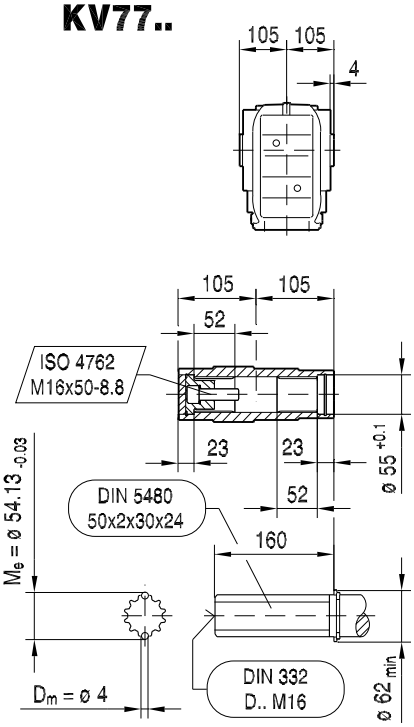
KA77..



KH77..



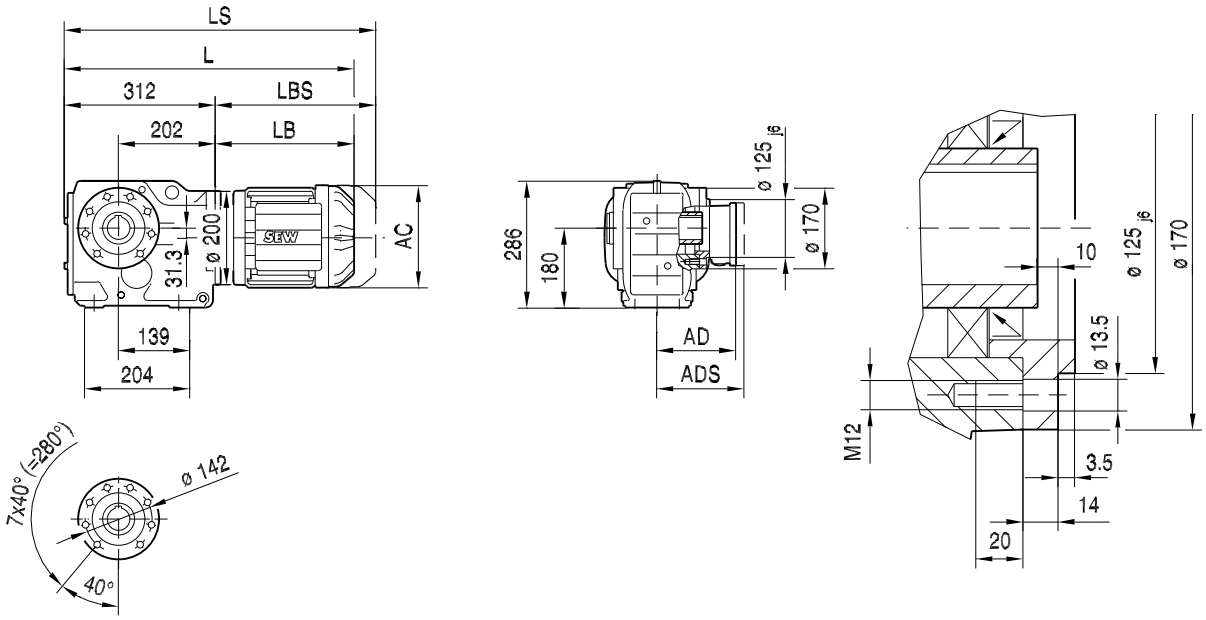
KV77..



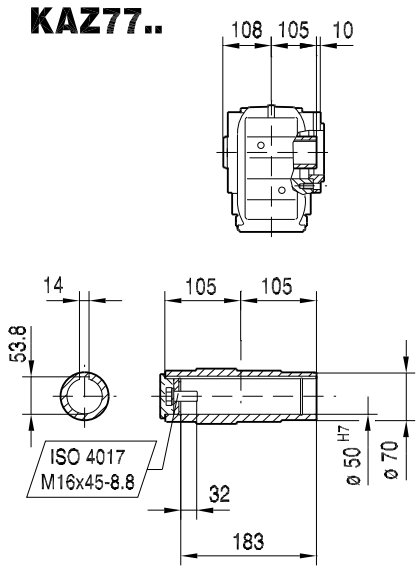
(→ 127)	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..
AC	139	156	156	179	179	197	197	221	221	270
AD	129	139	139	150	150	158	158	172	172	228
ADS	129	139	139	150	150	158	158	172	172	228
L	526	535	566	568	588	618	648	691	741	782
LS	594	616	647	661	681	711	741	803	853	919
LB	214	223	254	256	276	306	336	379	429	470
LBS	282	304	335	349	369	399	429	491	541	607

33 164 00 09

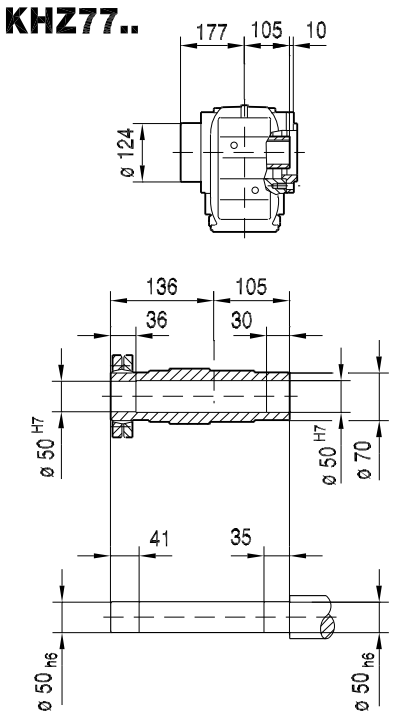
KAZ77..



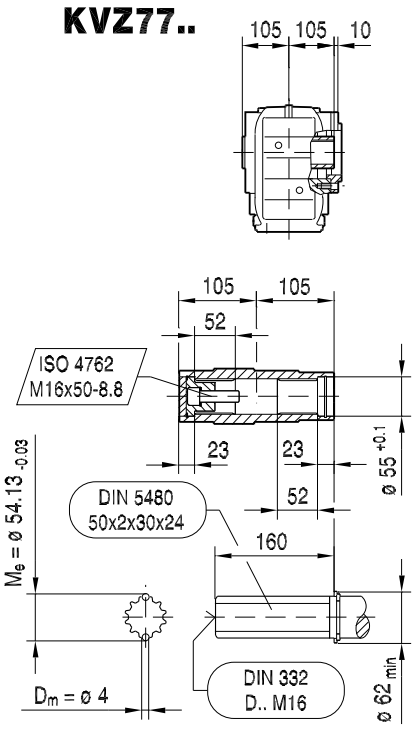
KAZ77..



KHZ77..



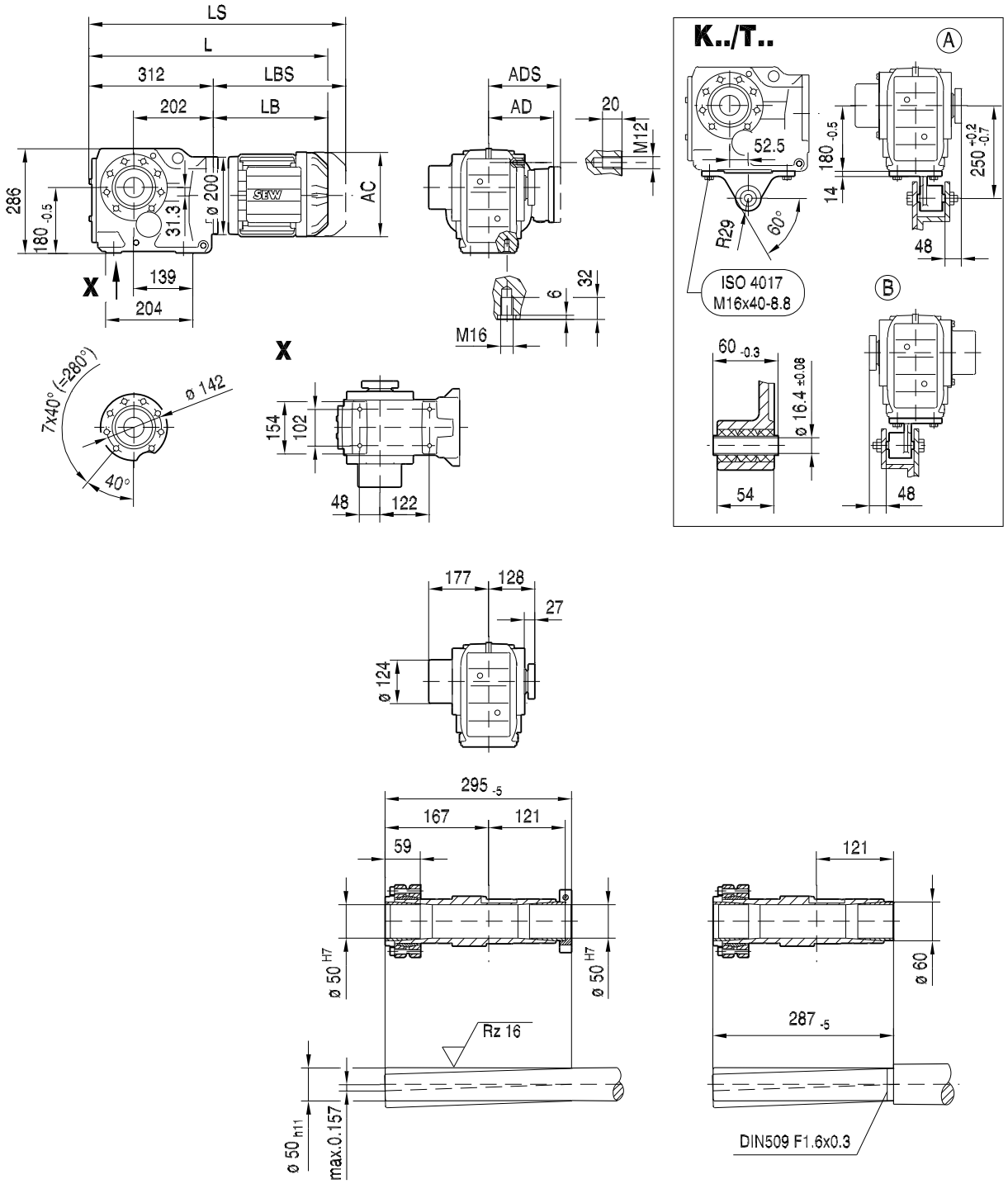
KVZ77..



(→ 127)	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..
AC	139	156	156	179	179	197	197	221	221	270
AD	129	139	139	150	150	158	158	172	172	228
ADS	129	139	139	150	150	158	158	172	172	228
L	526	535	566	568	588	618	648	691	741	782
LS	594	616	647	661	681	711	741	803	853	919
LB	214	223	254	256	276	306	336	379	429	470
LBS	282	304	335	349	369	399	429	491	541	607

KT77..

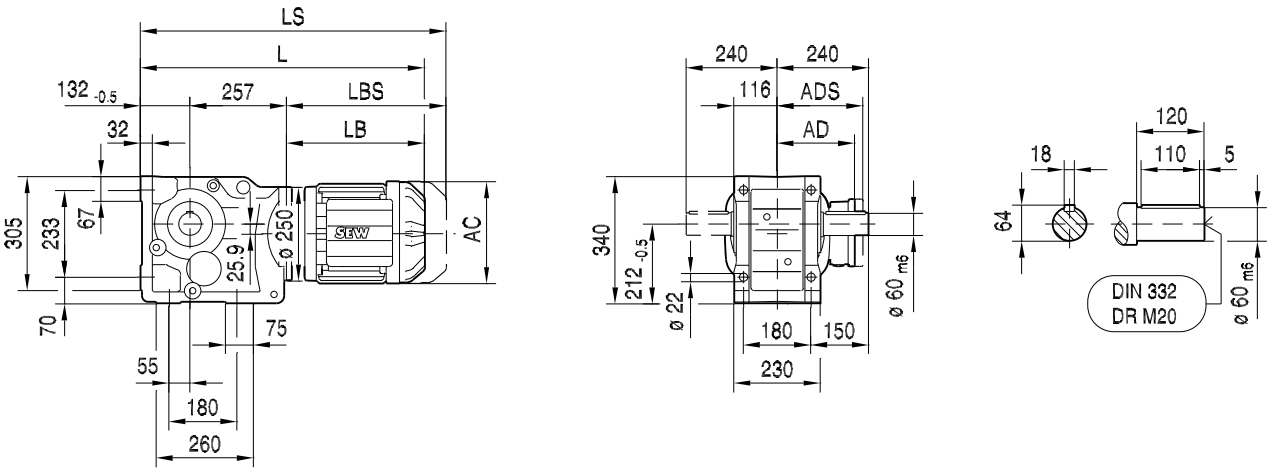
33 165 00 09



(→ 127)	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..
AC	139	156	156	179	179	197	197	221	221	270
AD	129	139	139	150	150	158	158	172	172	228
ADS	129	139	139	150	150	158	158	172	172	228
L	526	535	566	568	588	618	648	691	741	782
LS	594	616	647	661	681	711	741	803	853	919
LB	214	223	254	256	276	306	336	379	429	470
LBS	282	304	335	349	369	399	429	491	541	607

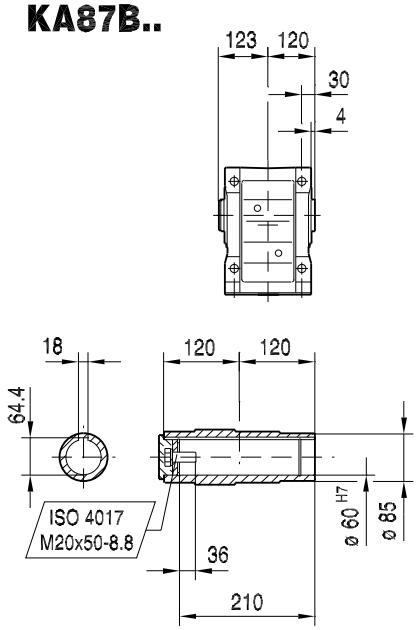
33 166 00 09

K87..

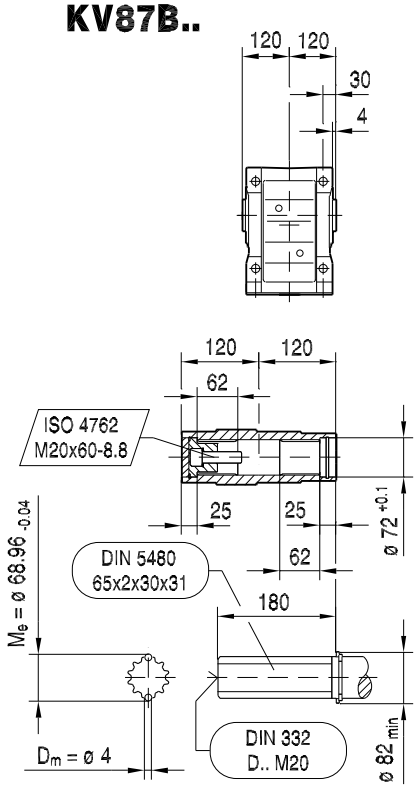


10

KA87B..



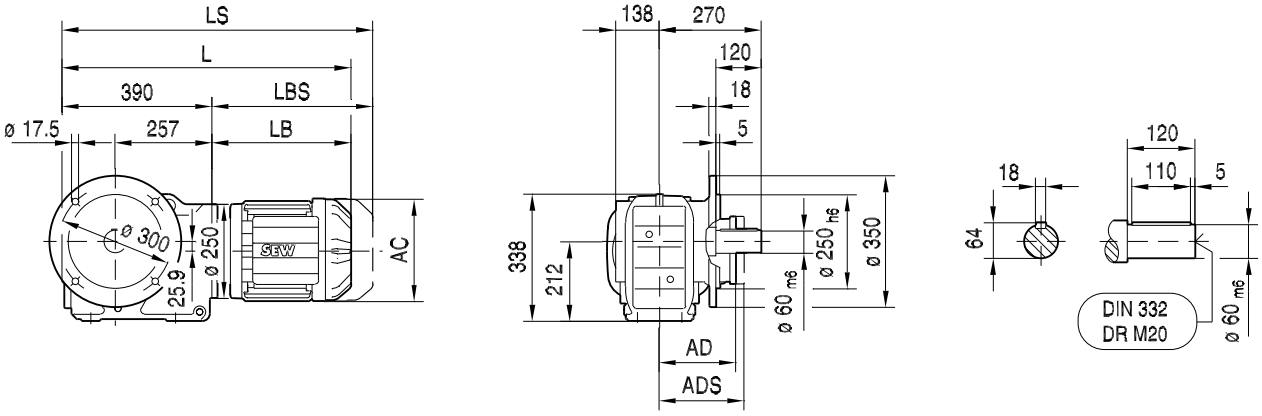
KV87B..



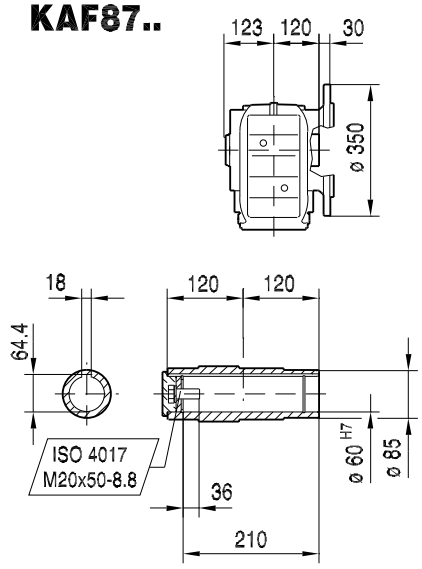
(→ 127)	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC
AC	156	179	179	197	197	221	221	270	316	316
AD	139	150	150	158	158	172	172	228	253	253
ADS	139	150	150	158	158	172	172	228	253	253
L	638	640	660	690	720	763	813	854	923	983
LS	719	733	753	783	813	875	925	991	1112	1172
LB	249	251	271	301	331	374	424	465	534	594
LBS	330	344	364	394	424	486	536	602	723	783

KF87..

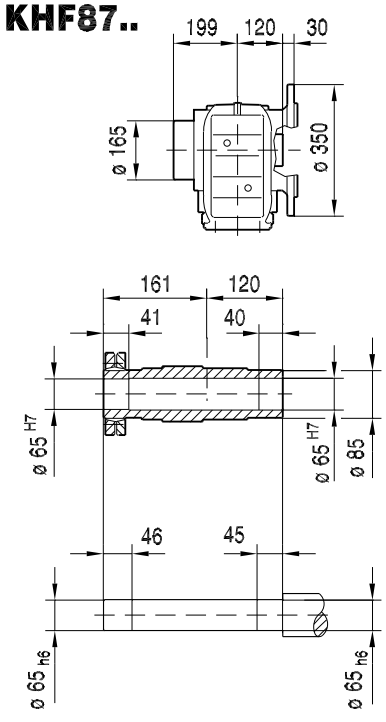
33 167 00 09



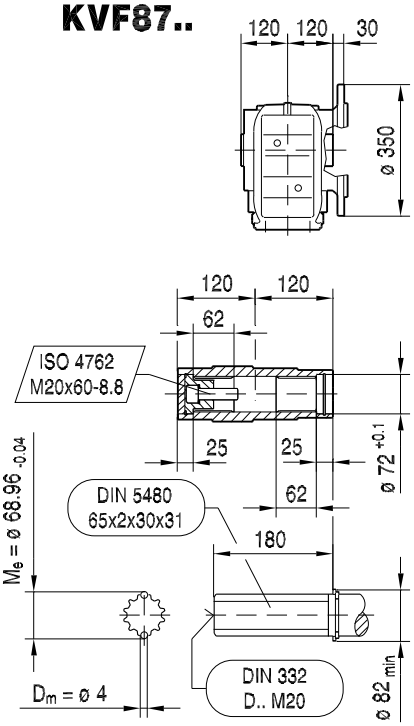
KAF87..



KHF87..



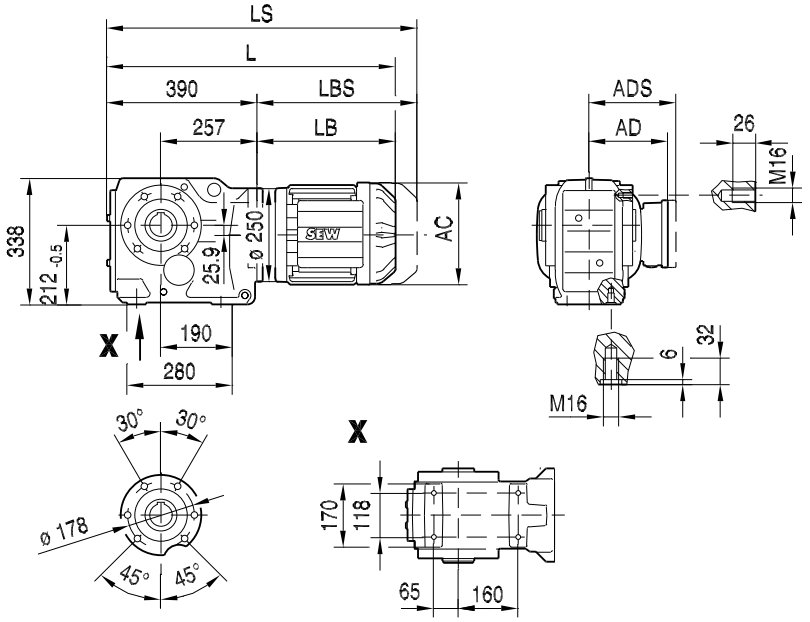
KVF87..

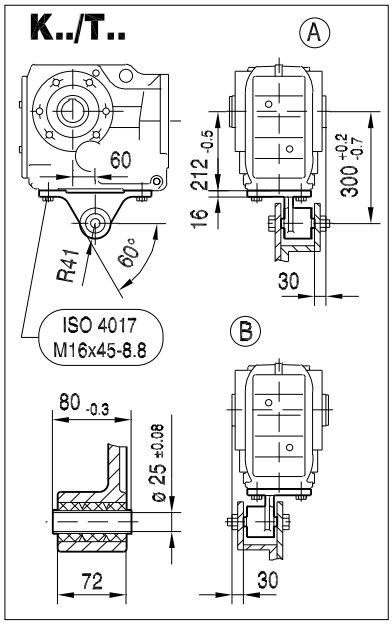


(→ 127)	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC
AC	156	179	179	197	197	221	221	270	316	316
AD	139	150	150	158	158	172	172	228	253	253
ADS	139	150	150	158	158	172	172	228	253	253
L	639	641	661	691	721	764	814	855	924	984
LS	720	734	754	784	814	876	926	992	1113	1173
LB	249	251	271	301	331	374	424	465	534	594
LBS	330	344	364	394	424	486	536	602	723	783

33 168 00 09

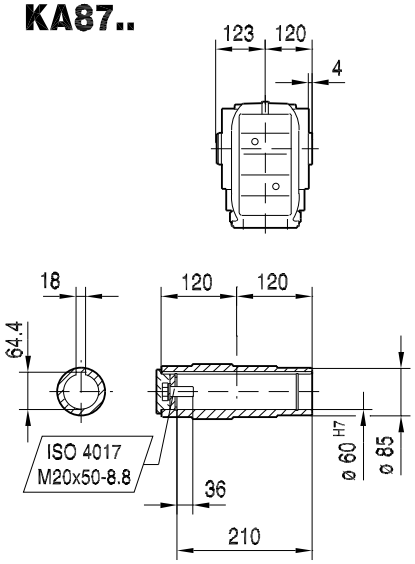
KA87..



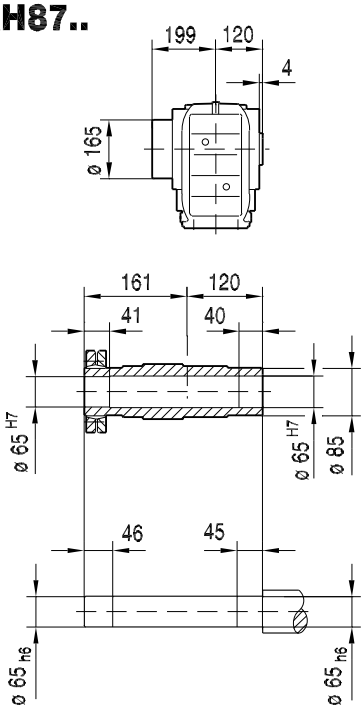


10

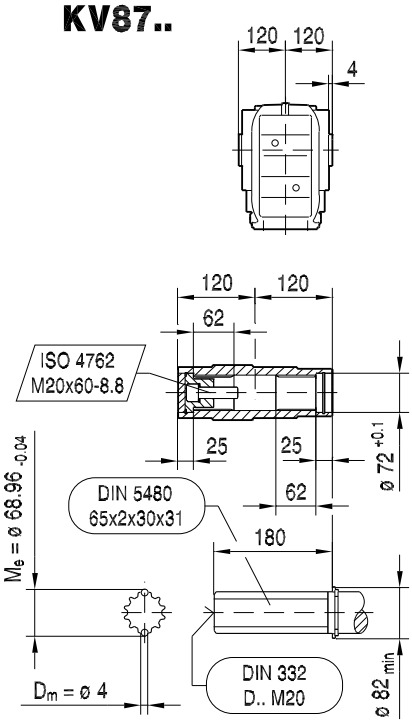
KA87..



KH87..



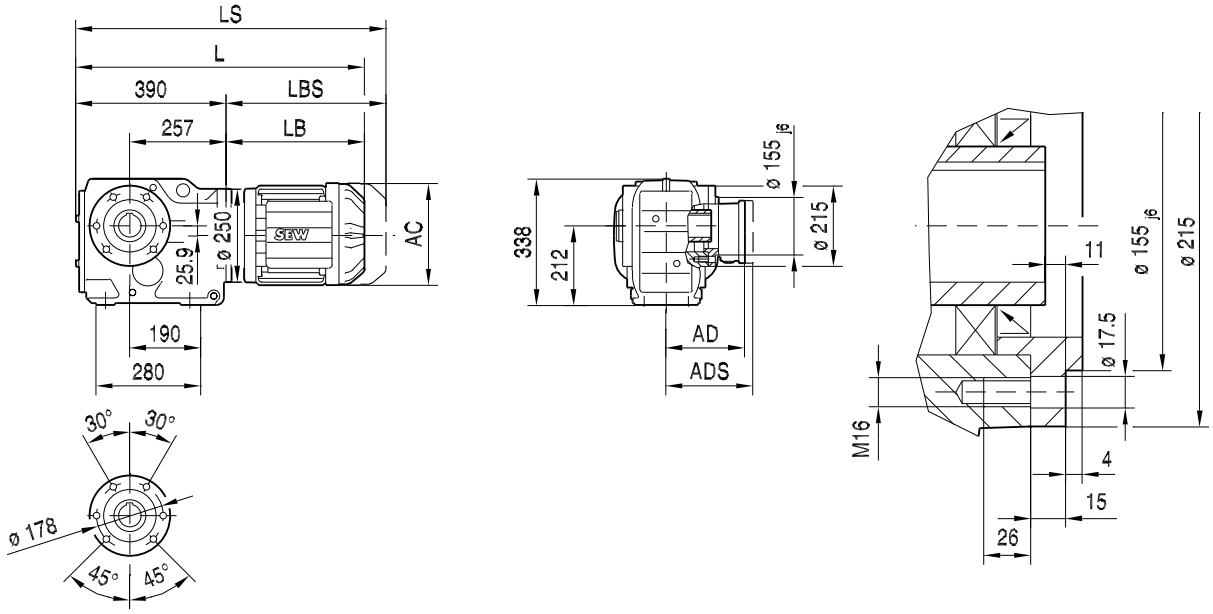
KV87..



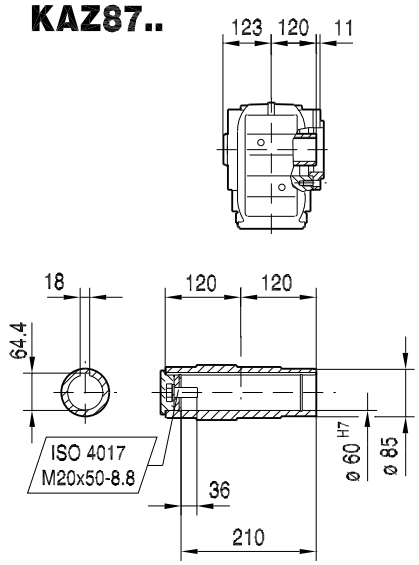
(→ 127)	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC
AC	156	179	179	197	197	221	221	270	316	316
AD	139	150	150	158	158	172	172	228	253	253
ADS	139	150	150	158	158	172	172	228	253	253
L	639	641	661	691	721	764	814	855	924	984
LS	720	734	754	784	814	876	926	992	1113	1173
LB	249	251	271	301	331	374	424	465	534	594
LBS	330	344	364	394	424	486	536	602	723	783

33 169 00 09

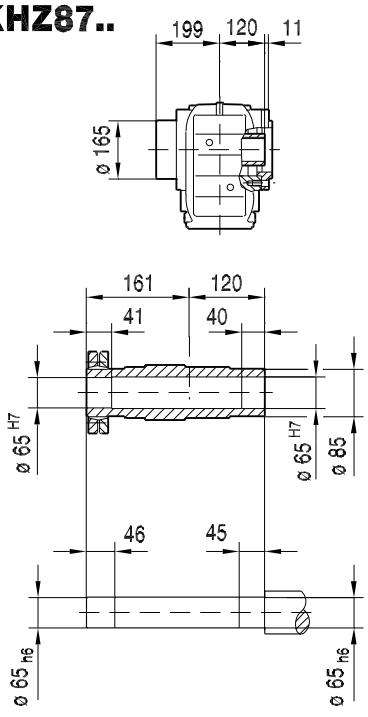
KAZ87..



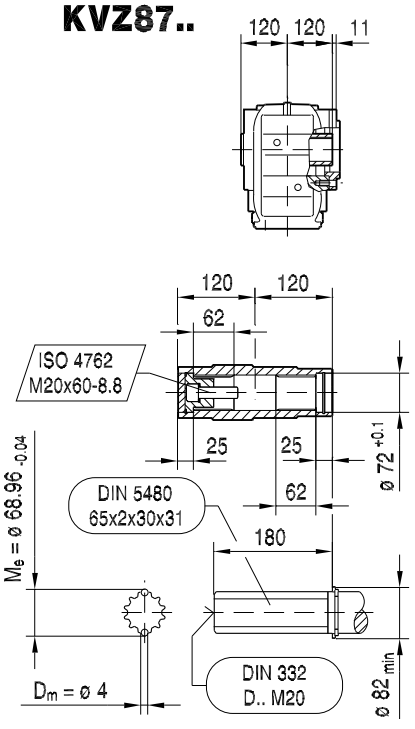
KAZ87..



KHZ87..



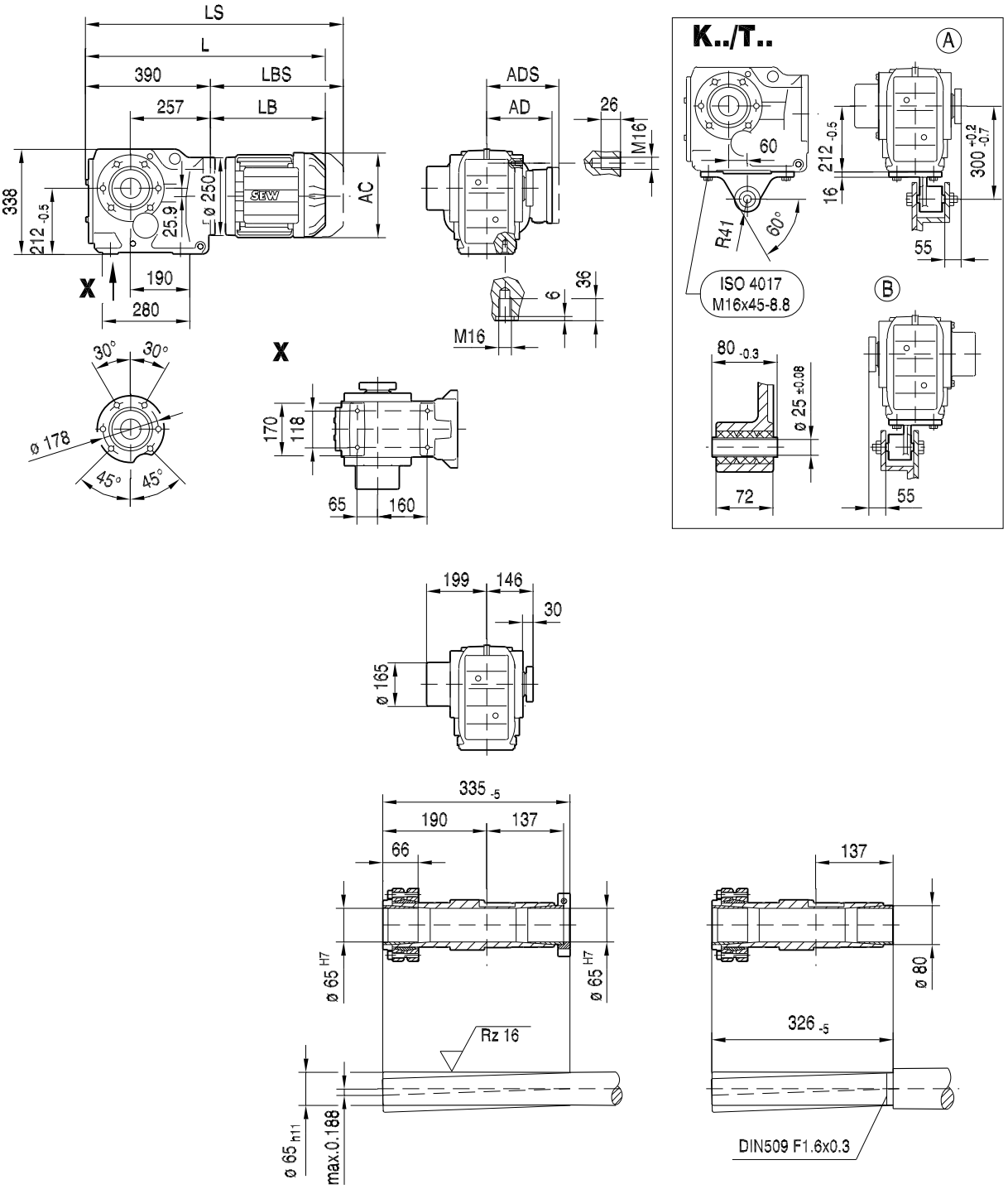
KVZ87..



(→ 127)	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC
AC	156	179	179	197	197	221	221	270	316	316
AD	139	150	150	158	158	172	172	228	253	253
ADS	139	150	150	158	158	172	172	228	253	253
L	639	641	661	691	721	764	814	855	924	984
LS	720	734	754	784	814	876	926	992	1113	1173
LB	249	251	271	301	331	374	424	465	534	594
LBS	330	344	364	394	424	486	536	602	723	783

KT87..

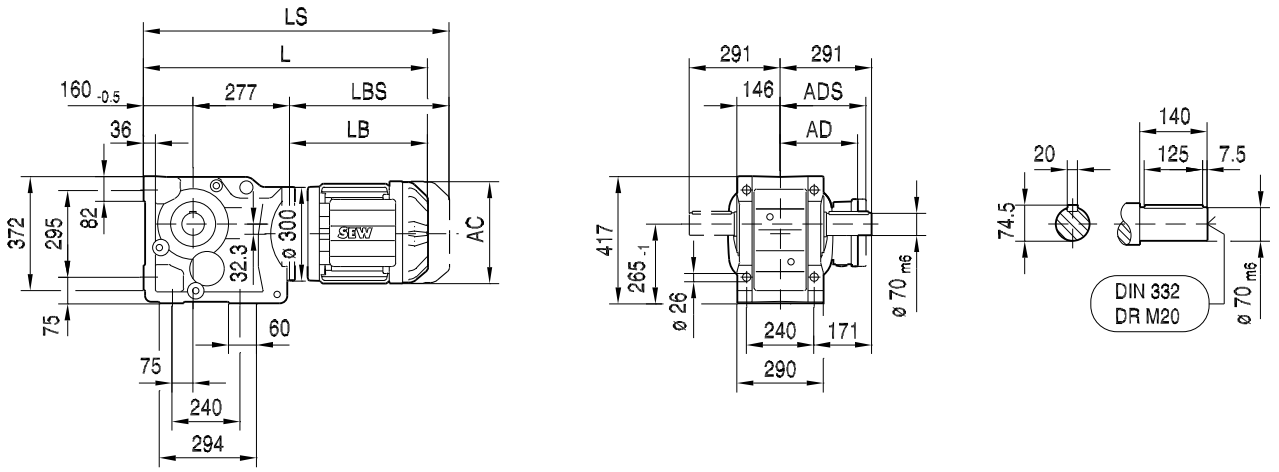
33 170 00 09



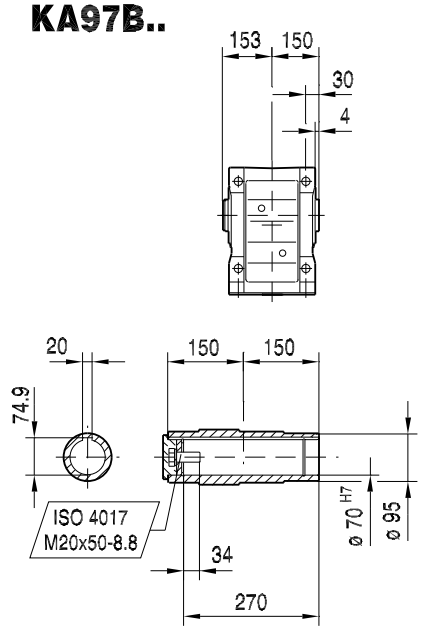
(→ 127)	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC
AC	156	179	179	197	197	221	221	270	316	316
AD	139	150	150	158	158	172	172	228	253	253
ADS	139	150	150	158	158	172	172	228	253	253
L	639	641	661	691	721	764	814	855	924	984
LS	720	734	754	784	814	876	926	992	1113	1173
LB	249	251	271	301	331	374	424	465	534	594
LBS	330	344	364	394	424	486	536	602	723	783

33 171 00 09

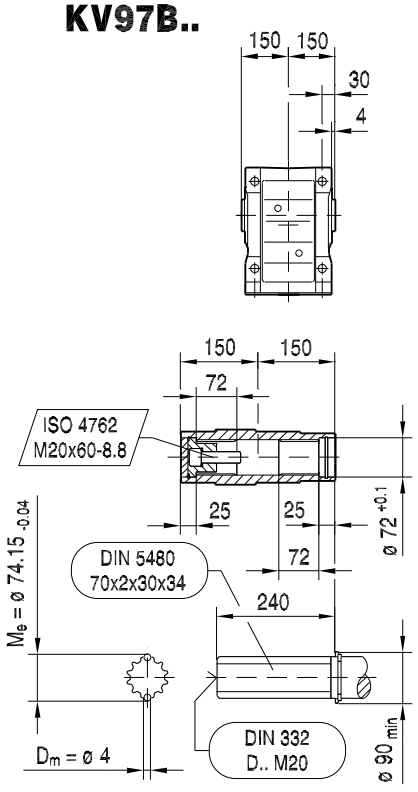
K97..



KA97B..



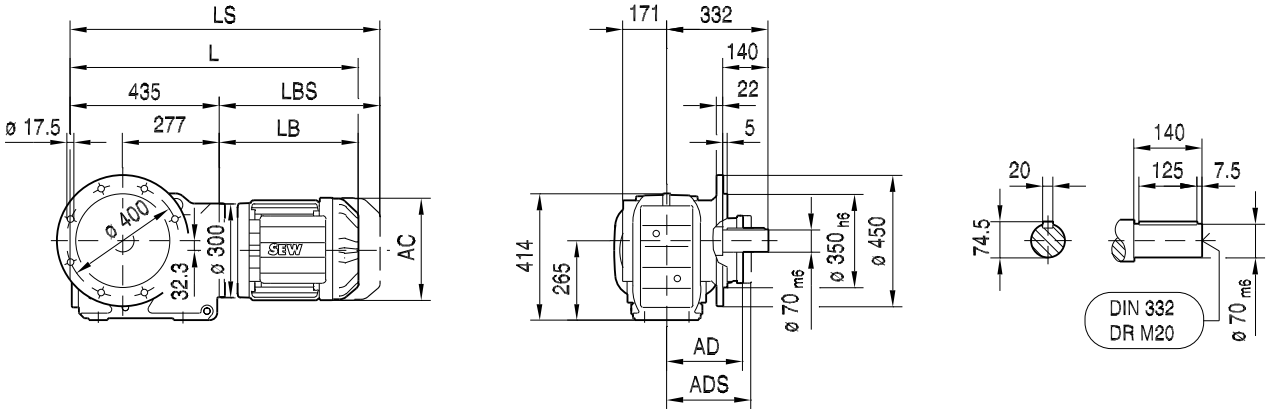
KV97B..



(→ 127)	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S
AC	179	197	197	221	221	270	316	316	394	394
AD	150	158	158	172	172	228	253	253	283	283
ADS	150	158	158	172	172	228	253	253	283	283
L	703	733	763	806	856	897	966	1026	1099	1099
LS	796	826	856	918	968	1034	1155	1215	1304	1304
LB	266	296	326	369	419	460	529	589	662	662
LBS	359	389	419	481	531	597	718	778	867	867

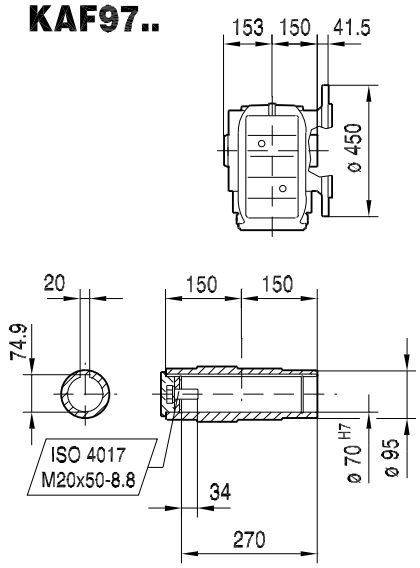
33 172 00 09

KF97..

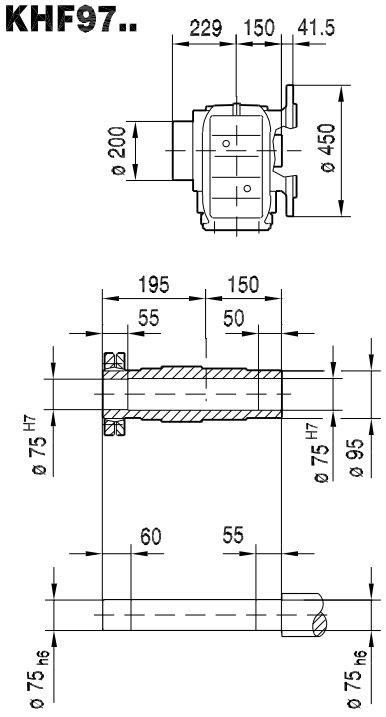


10

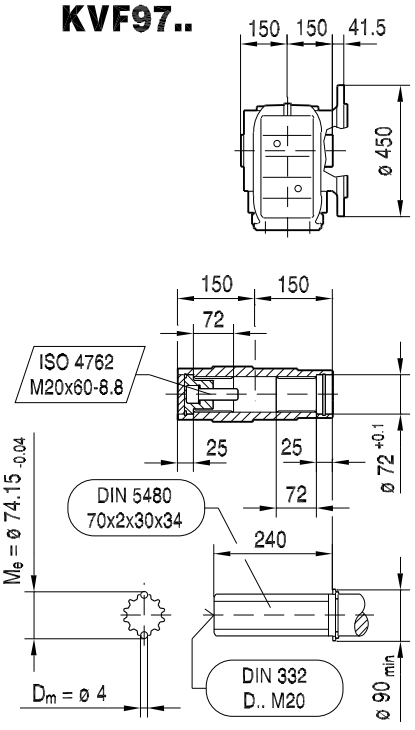
KAF97..



KHF97..



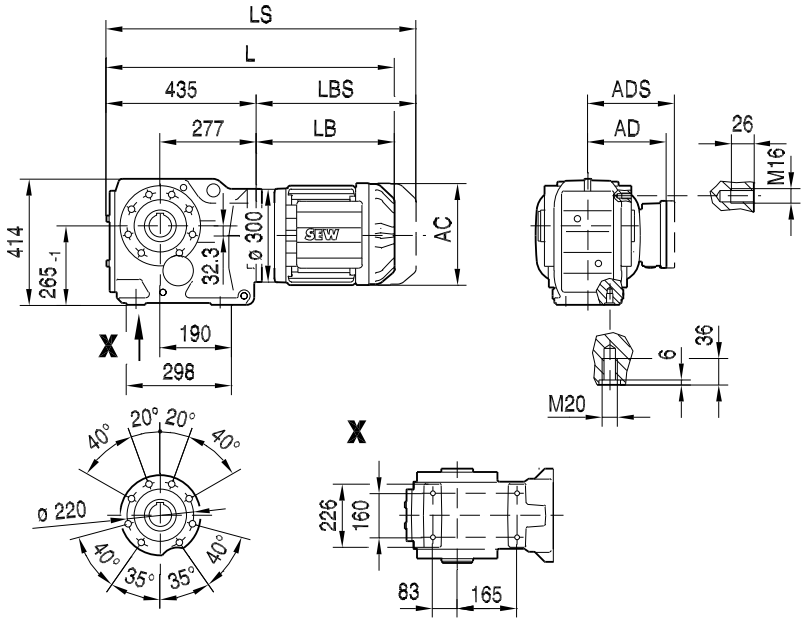
KVF97..

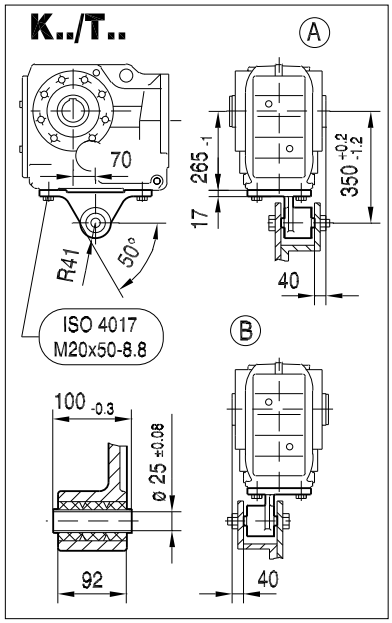


(→ 127)	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S
AC	179	197	197	221	221	270	316	316	394	394
AD	150	158	158	172	172	228	253	253	283	283
ADS	150	158	158	172	172	228	253	253	283	283
L	701	731	761	804	854	895	964	1024	1097	1097
LS	794	824	854	916	966	1032	1153	1213	1302	1302
LB	266	296	326	369	419	460	529	589	662	662
LBS	359	389	419	481	531	597	718	778	867	867

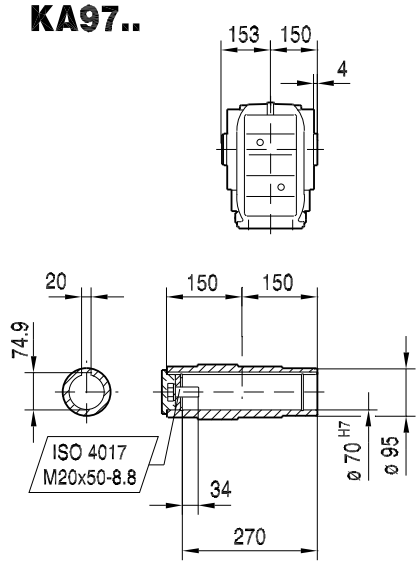
33 173 00 09

KA97..

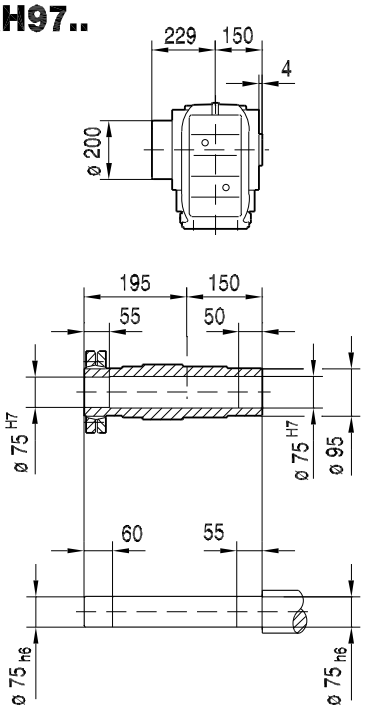




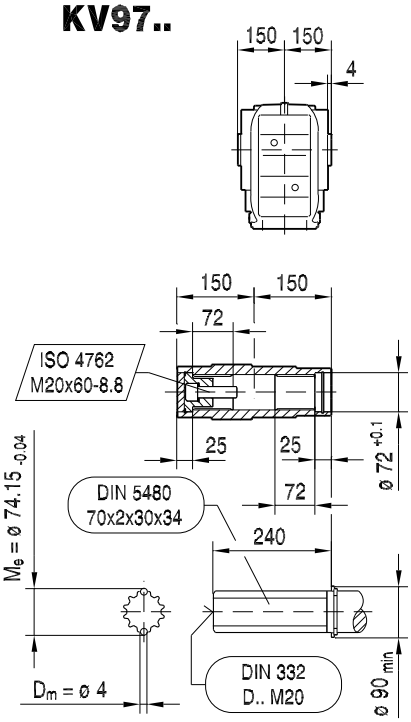
KA97..



KH97..



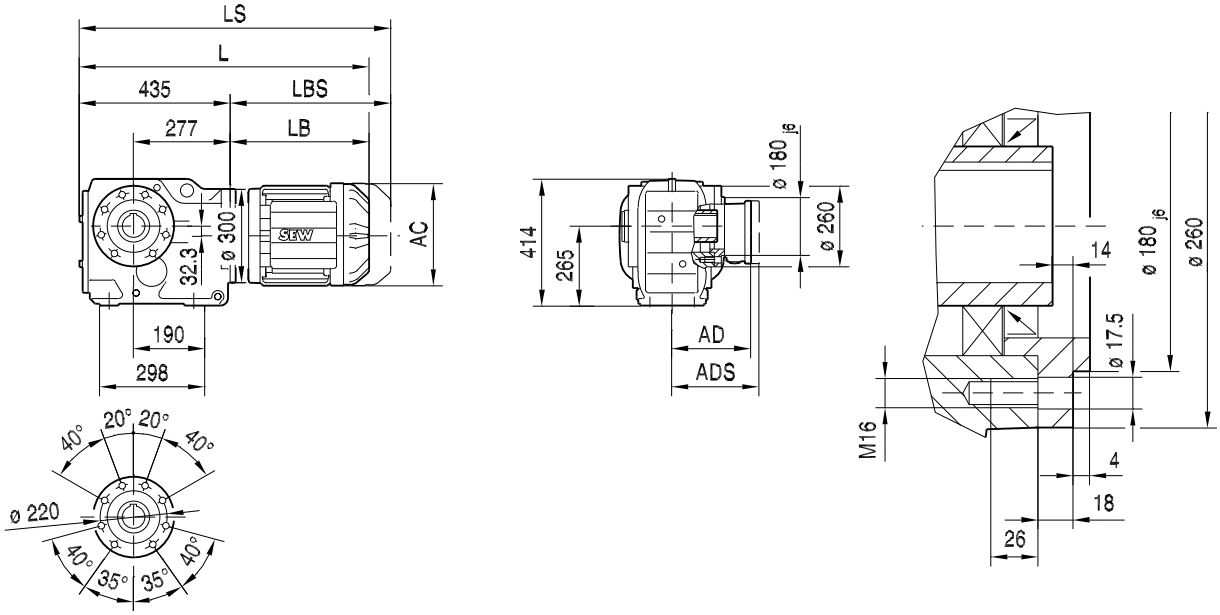
KV97..



(→ 127)	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S
AC	179	197	197	221	221	270	316	316	394	394
AD	150	158	158	172	172	228	253	253	283	283
ADS	150	158	158	172	172	228	253	253	283	283
L	701	731	761	804	854	895	964	1024	1097	1097
LS	794	824	854	916	966	1032	1153	1213	1302	1302
LB	266	296	326	369	419	460	529	589	662	662
LBS	359	389	419	481	531	597	718	778	867	867

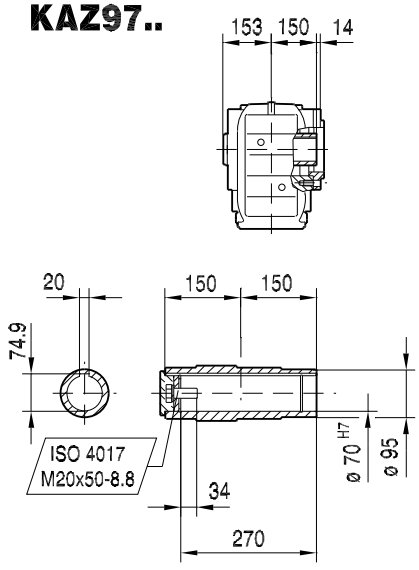
33 174 00 09

KAZ97..

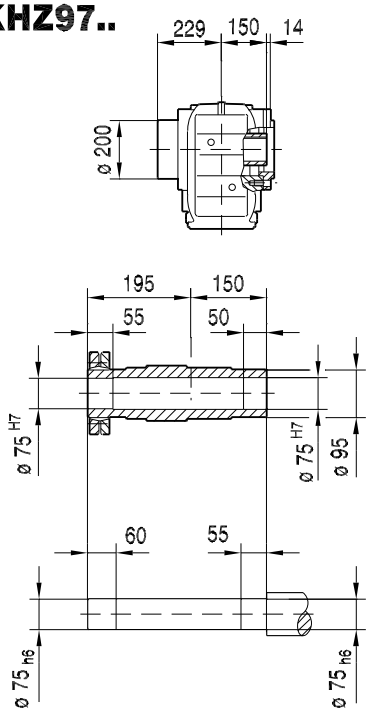


10

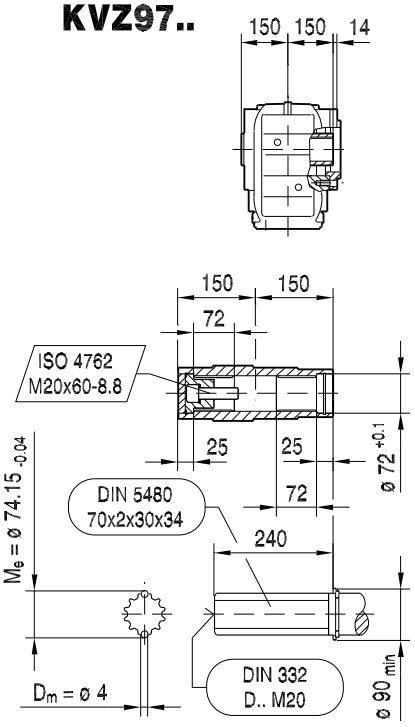
KAZ97..



KHZ97..



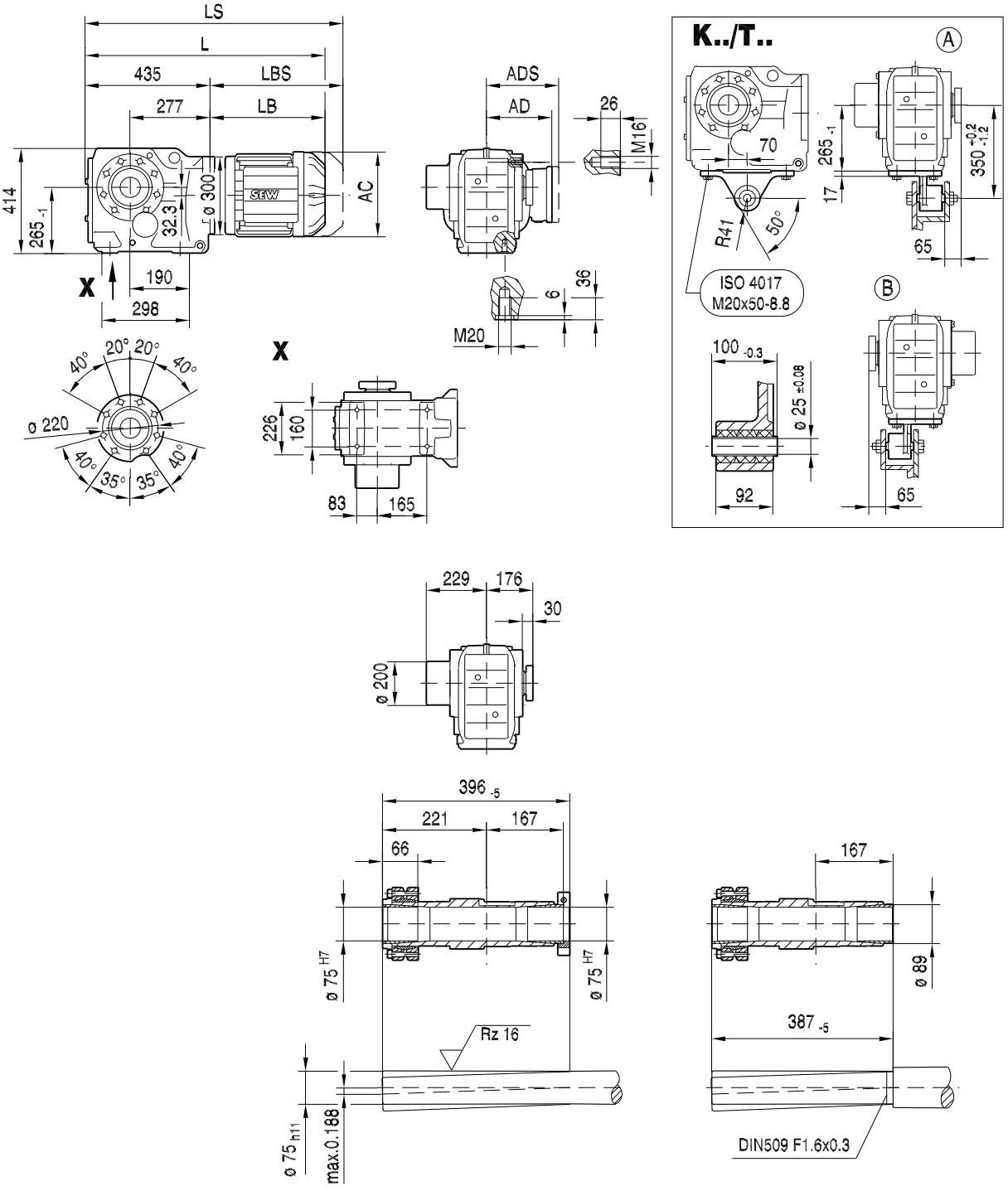
KVZ97..



(→ 127)	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S
AC	179	197	197	221	221	270	316	316	394	394
AD	150	158	158	172	172	228	253	253	283	283
ADS	150	158	158	172	172	228	253	253	283	283
L	701	731	761	804	854	895	964	1024	1097	1097
LS	794	824	854	916	966	1032	1153	1213	1302	1302
LB	266	296	326	369	419	460	529	589	662	662
LBS	359	389	419	481	531	597	718	778	867	867

KT97..

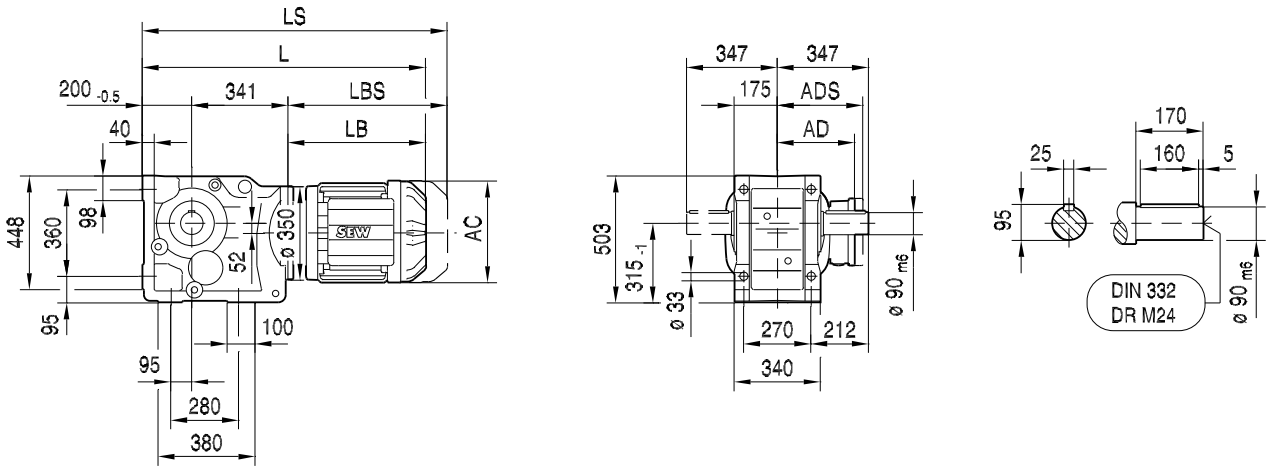
33 175 00 09



(→ 127)	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S
AC	179	197	197	221	221	270	316	316	394	394
AD	150	158	158	172	172	228	253	253	283	283
ADS	150	158	158	172	172	228	253	253	283	283
L	701	731	761	804	854	895	964	1024	1097	1097
LS	794	824	854	916	966	1032	1153	1213	1302	1302
LB	266	296	326	369	419	460	529	589	662	662
LBS	359	389	419	481	531	597	718	778	867	867

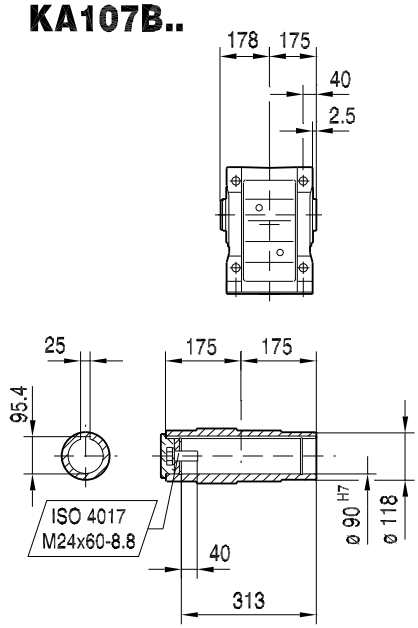
33 176 00 09

K107..

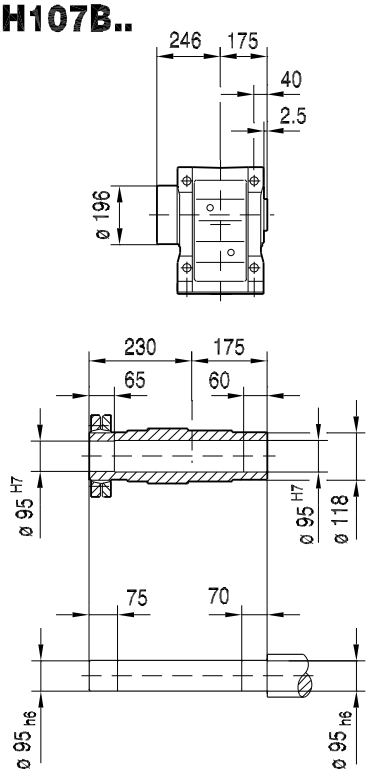


10

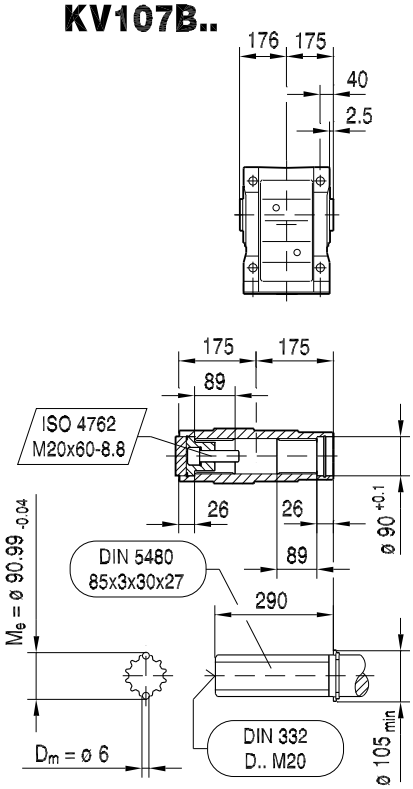
KA107B..



KH107B..



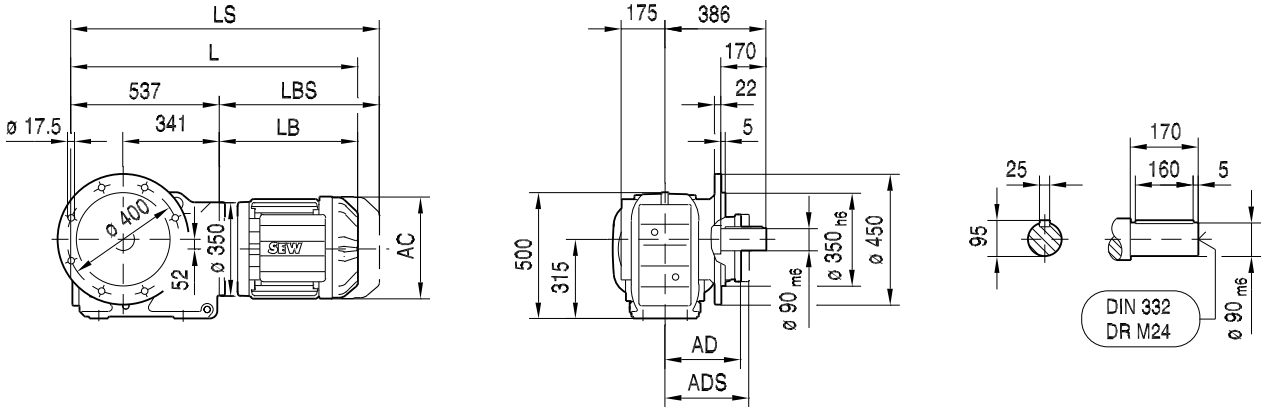
KV107B..



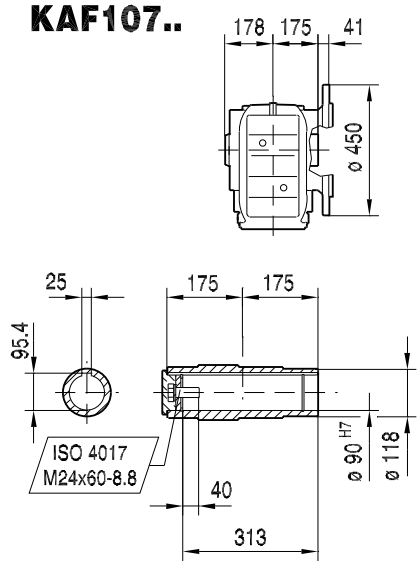
(→ 127)	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC
AC	197	221	221	270	316	316	394	394	394
AD	158	172	172	228	253	253	283	283	283
ADS	158	172	172	228	253	253	283	283	283
L	861	904	954	995	1064	1124	1197	1197	1247
LS	954	1016	1066	1132	1253	1313	1402	1402	1452
LB	320	363	413	454	523	583	656	656	706
LBS	413	475	525	591	712	772	861	861	911

KF107..

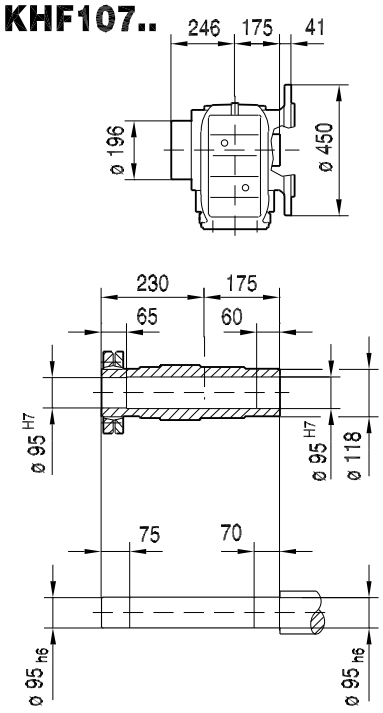
33 177 00 09



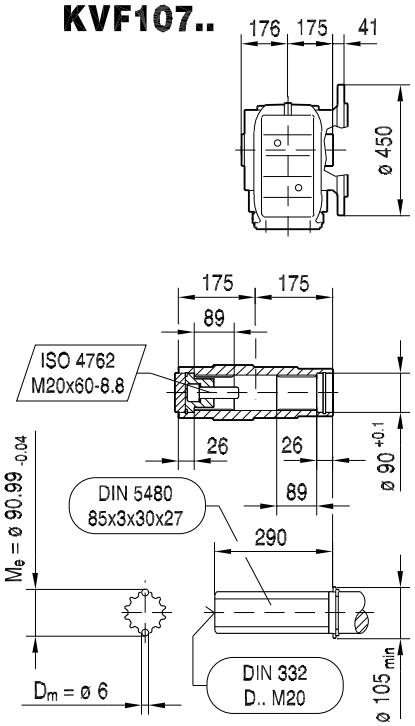
KAF107..



KHF107..



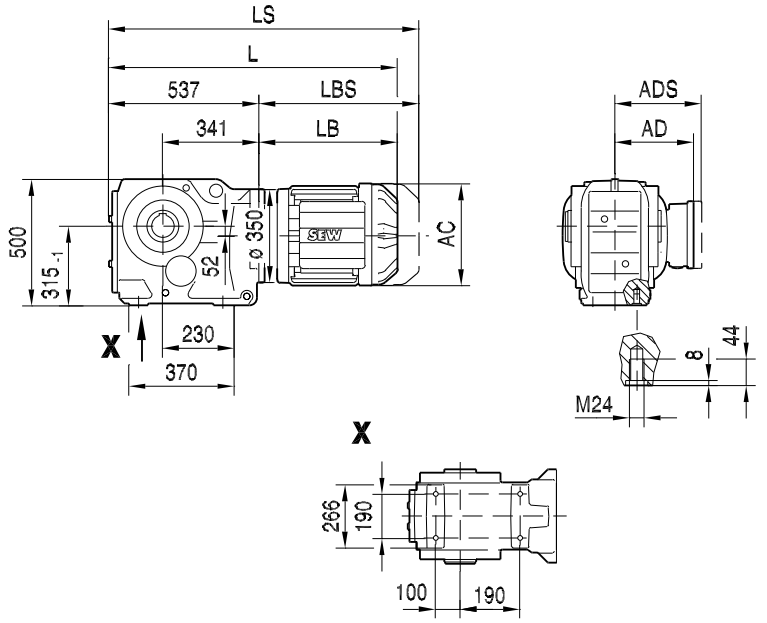
KVF107..

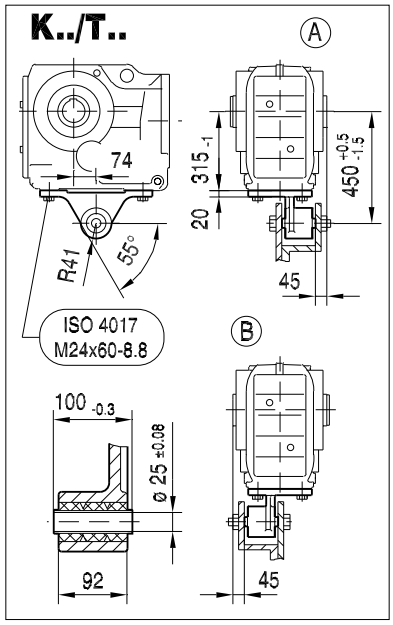


(→ 127)	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC
AC	197	221	221	270	316	316	394	394	394
AD	158	172	172	228	253	253	283	283	283
ADS	158	172	172	228	253	253	283	283	283
L	857	900	950	991	1060	1120	1193	1193	1243
LS	950	1012	1062	1128	1249	1309	1398	1398	1448
LB	320	363	413	454	523	583	656	656	706
LBS	413	475	525	591	712	772	861	861	911

33 178 00 09

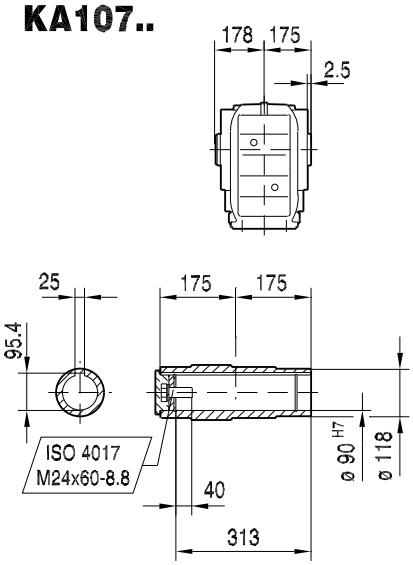
KA107..



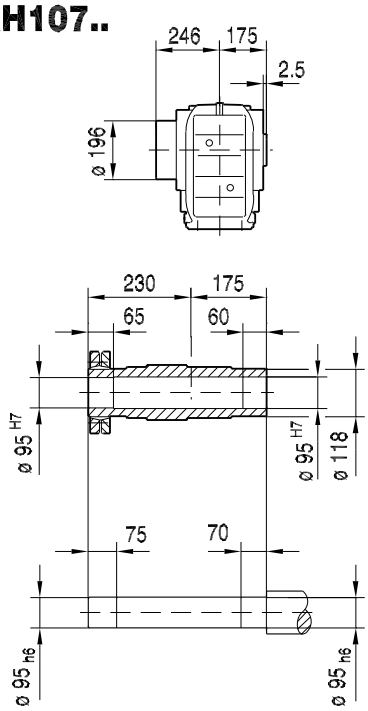


10

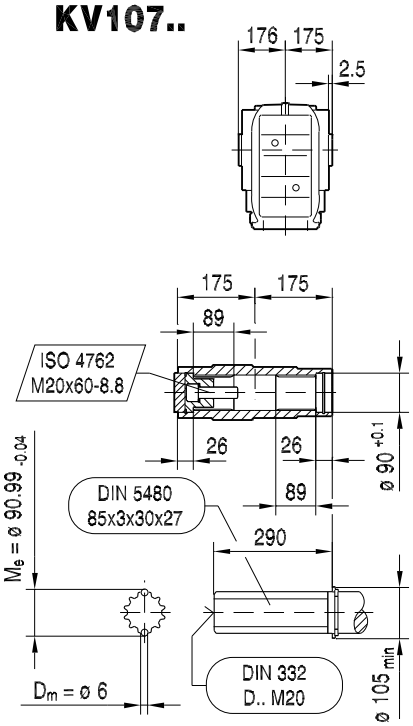
KA107..



KH107..



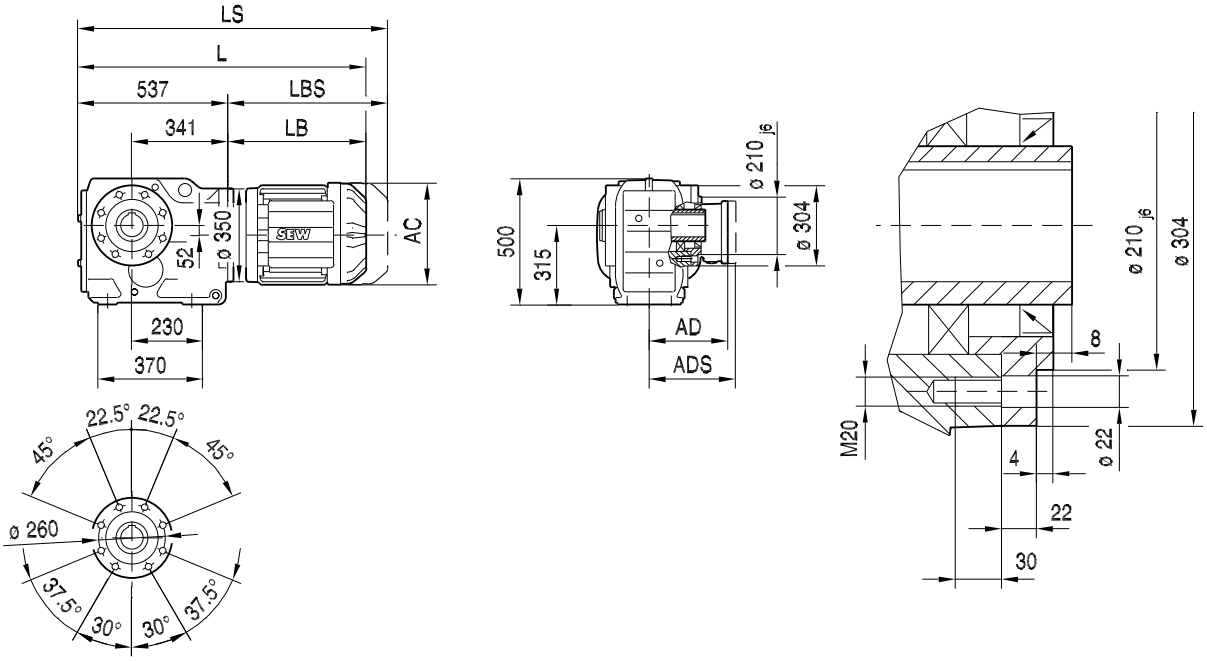
KV107..



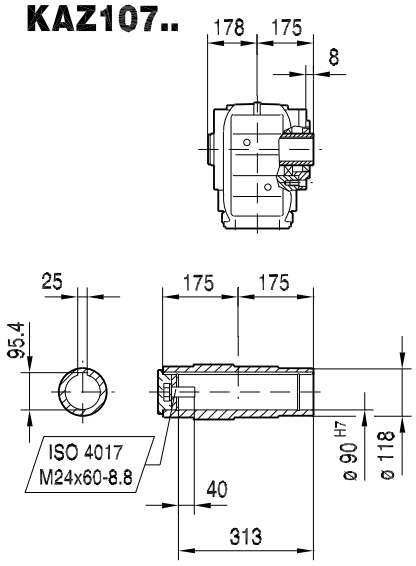
(→ 127)	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC
AC	197	221	221	270	316	316	394	394	394
AD	158	172	172	228	253	253	283	283	283
ADS	158	172	172	228	253	253	283	283	283
L	857	900	950	991	1060	1120	1193	1193	1243
LS	950	1012	1062	1128	1249	1309	1398	1398	1448
LB	320	363	413	454	523	583	656	656	706
LBS	413	475	525	591	712	772	861	861	911

33 179 00 09

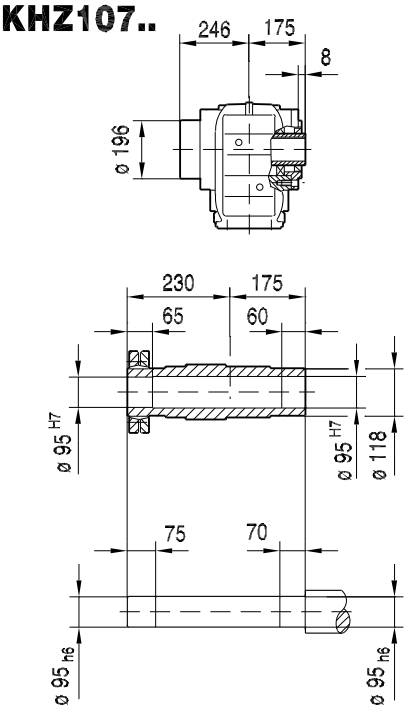
KAZ107..



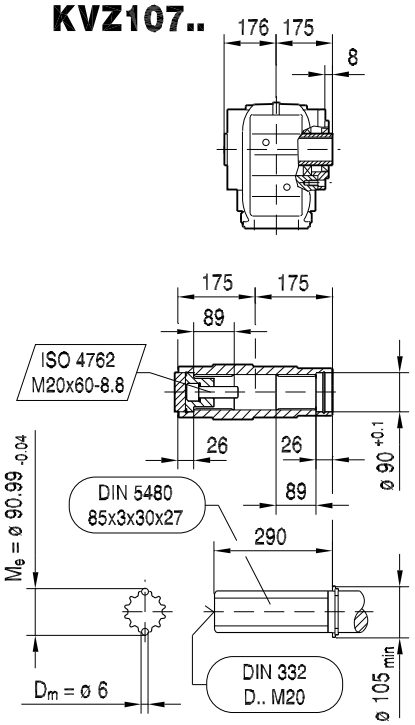
KAZ107..



KHZ107..



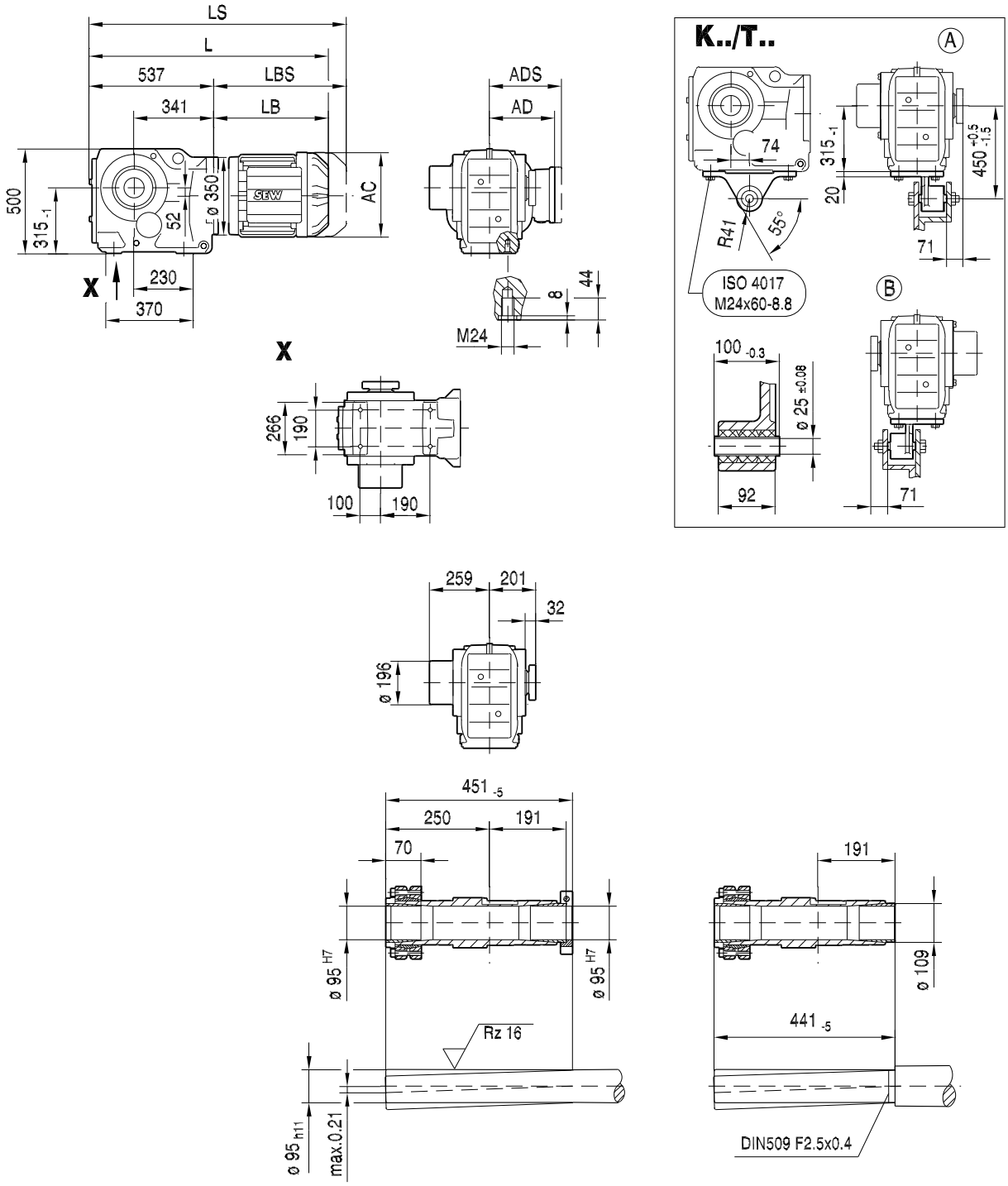
KVZ107..



(→ 127)	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC
AC	197	221	221	270	316	316	394	394	394
AD	158	172	172	228	253	253	283	283	283
ADS	158	172	172	228	253	253	283	283	283
L	857	900	950	991	1060	1120	1193	1193	1243
LS	950	1012	1062	1128	1249	1309	1398	1398	1448
LB	320	363	413	454	523	583	656	656	706
LBS	413	475	525	591	712	772	861	861	911

KT107..

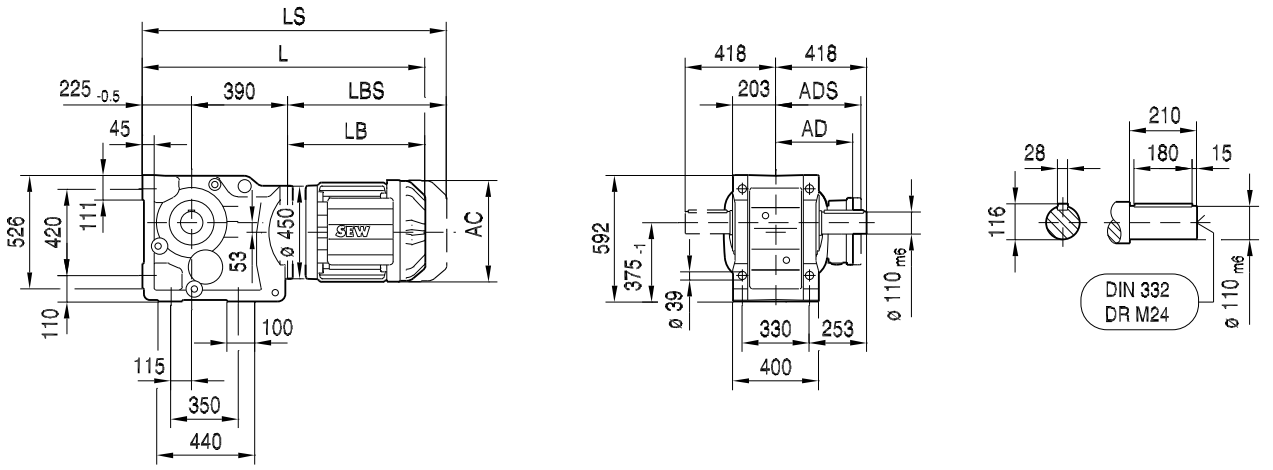
33 180 00 09



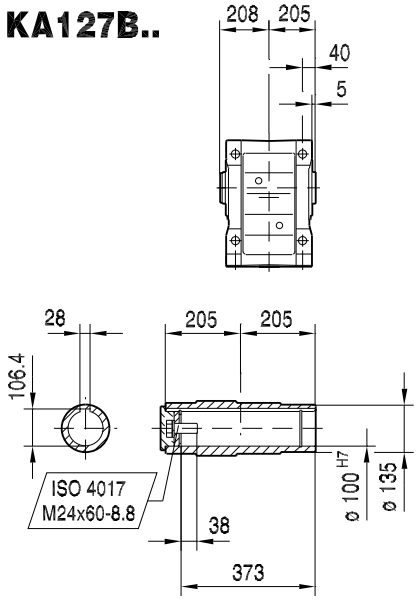
(→ 127)	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC
AC	197	221	221	270	316	316	394	394	394
AD	158	172	172	228	253	253	283	283	283
ADS	158	172	172	228	253	253	283	283	283
L	857	900	950	991	1060	1120	1193	1193	1243
LS	950	1012	1062	1128	1249	1309	1398	1398	1448
LB	320	363	413	454	523	583	656	656	706
LBS	413	475	525	591	712	772	861	861	911

33 181 00 09

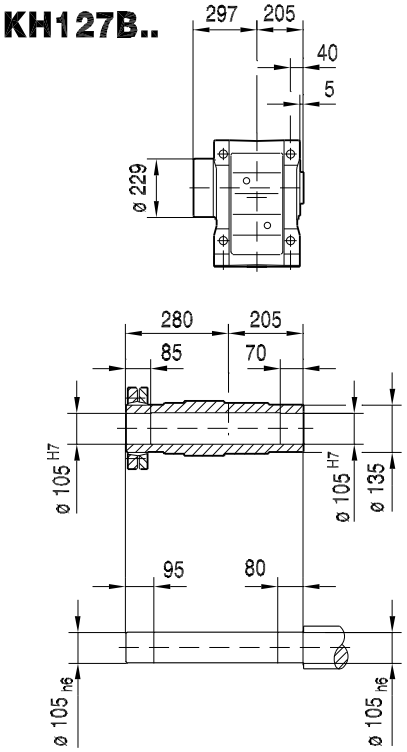
K127..



KA127B..



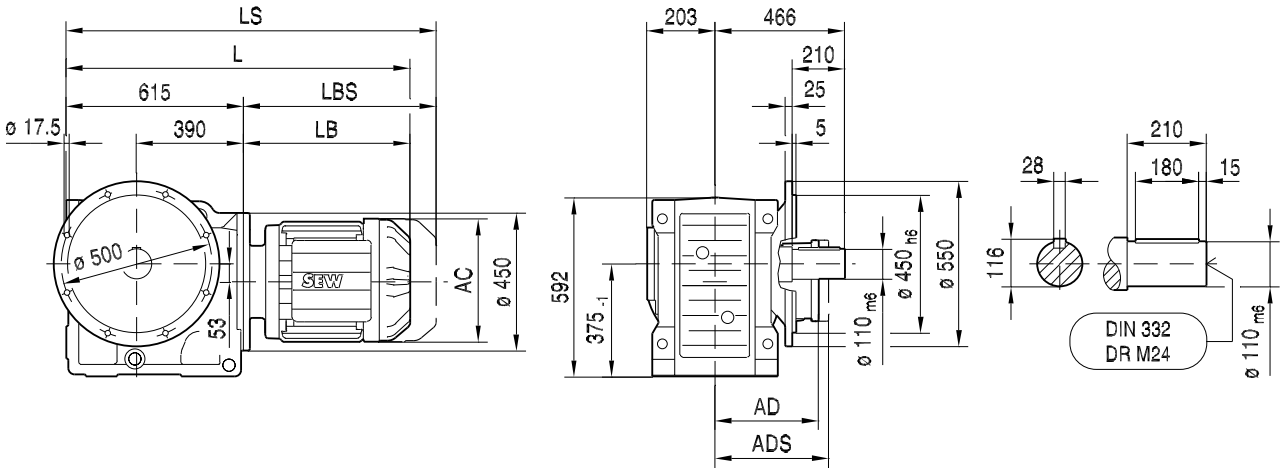
KH127B..



(→ 127)	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..
AC	221	270	316	316	394	394	394	510	510
AD	172	228	253	253	283	283	283	397	397
ADS	172	228	253	253	283	283	283	397	397
L	1013	1054	1123	1183	1256	1256	1306	1395	1395
LS	1125	1191	1312	1372	1461	1461	1511	1580	1580
LB	398	439	508	568	641	641	691	780	780
LBS	510	576	697	757	846	846	896	965	965

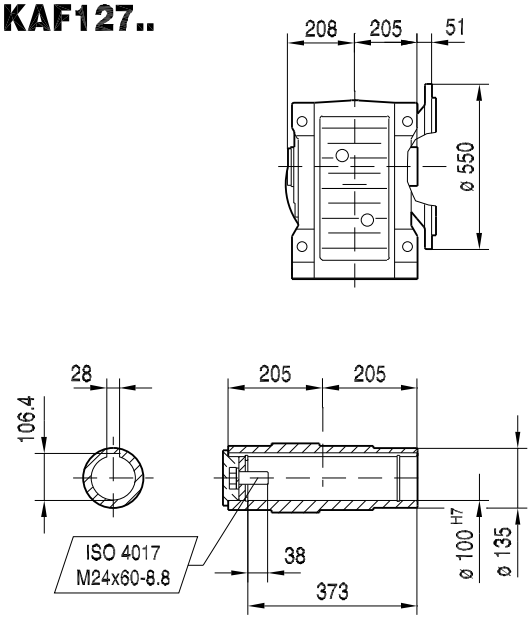
33 182 00 09

KF127..

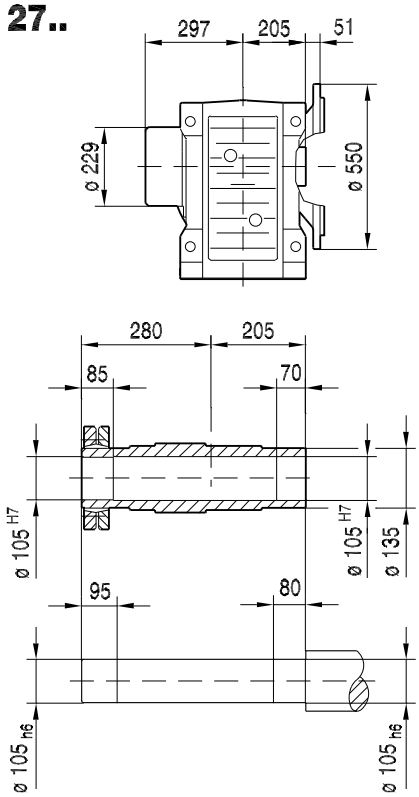


10

KAF127..



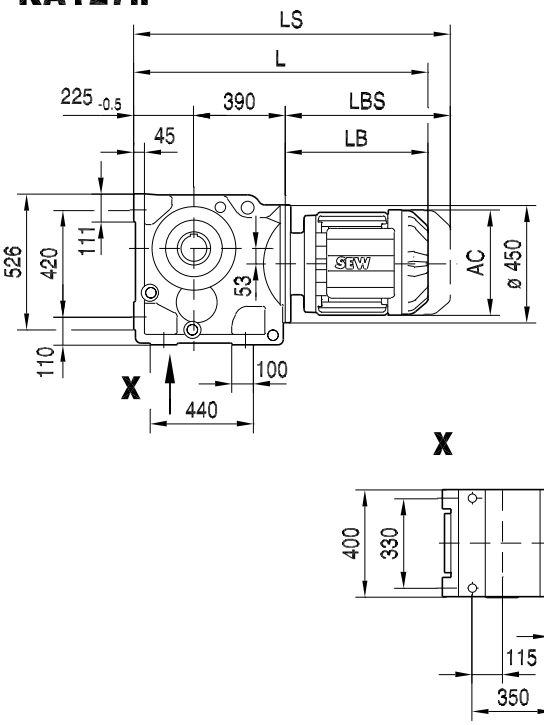
KHF127..



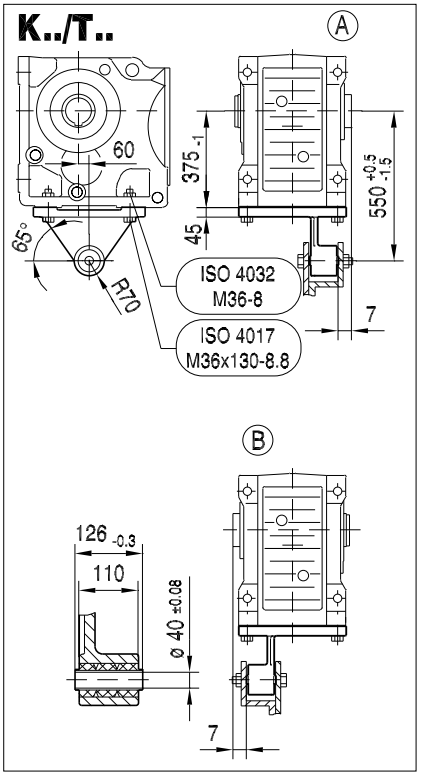
(→ 127)	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..
AC	221	270	316	316	394	394	394	510	510
AD	172	228	253	253	283	283	283	397	397
ADS	172	228	253	253	283	283	283	397	397
L	1013	1054	1123	1183	1256	1256	1306	1395	1395
LS	1125	1191	1312	1372	1461	1461	1511	1580	1580
LB	398	439	508	568	641	641	691	780	780
LBS	510	576	697	757	846	846	896	965	965

33 183 00 09

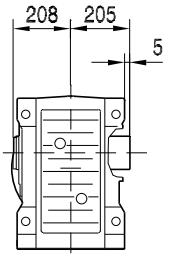
KA127..

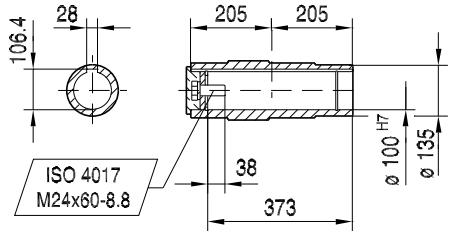


K../T..

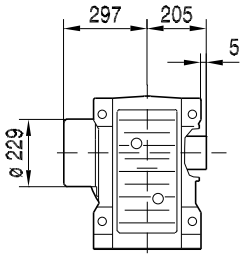


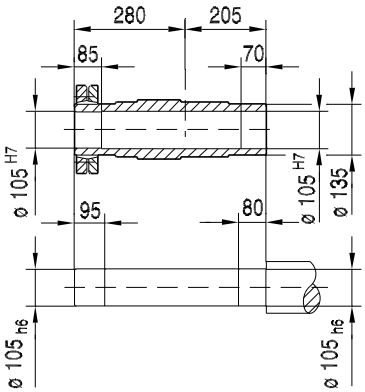
KA127..





KH127..

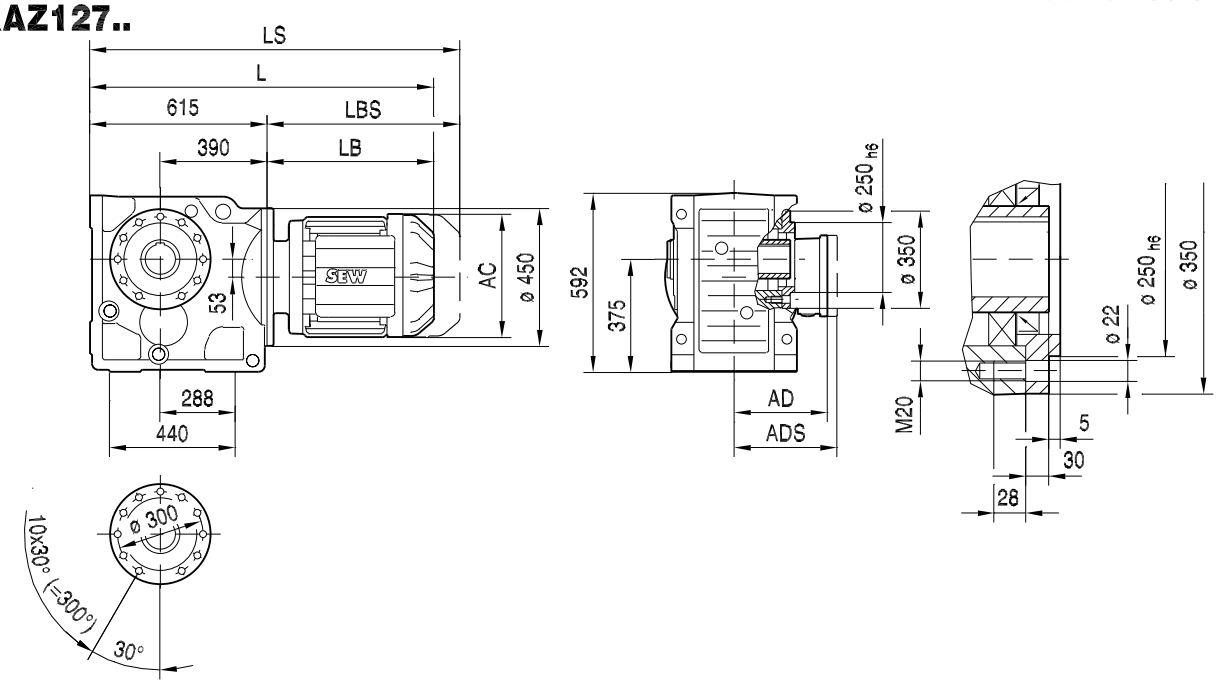




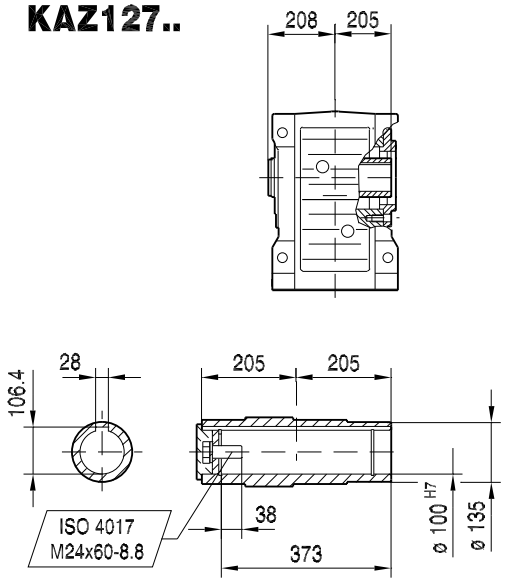
(→ 127)	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..
AC	221	270	316	316	394	394	394	510	510
AD	172	228	253	253	283	283	283	397	397
ADS	172	228	253	253	283	283	283	397	397
L	1013	1054	1123	1183	1256	1256	1306	1395	1395
LS	1125	1191	1312	1372	1461	1461	1511	1580	1580
LB	398	439	508	568	641	641	691	780	780
LBS	510	576	697	757	846	846	896	965	965

33 184 00 09

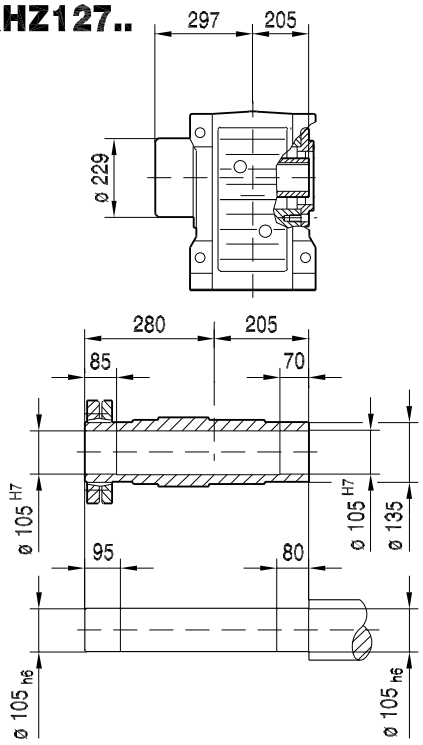
KAZ127..



KAZ127..

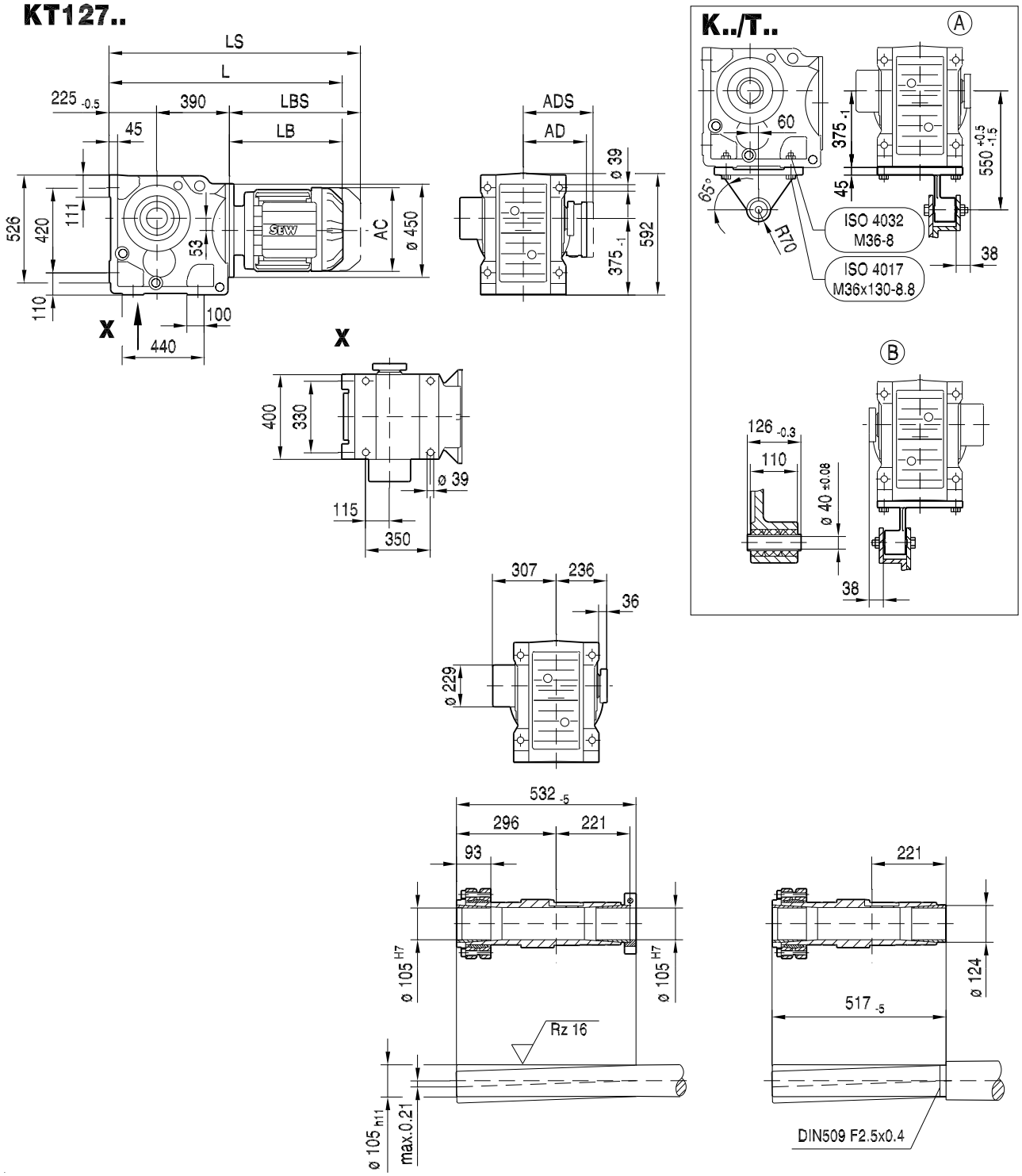


KHZ127..



(→ 127)	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..
AC	221	270	316	316	394	394	394	510	510
AD	172	228	253	253	283	283	283	397	397
ADS	172	228	253	253	283	283	283	397	397
L	1013	1054	1123	1183	1256	1256	1306	1395	1395
LS	1125	1191	1312	1372	1461	1461	1511	1580	1580
LB	398	439	508	568	641	641	691	780	780
LBS	510	576	697	757	846	846	896	965	965

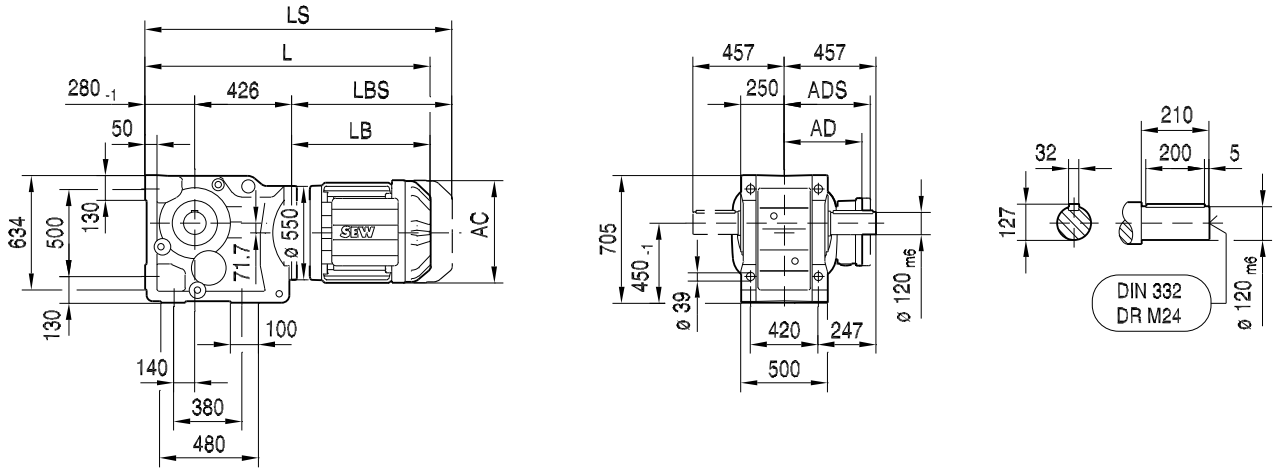
33 185 00 09



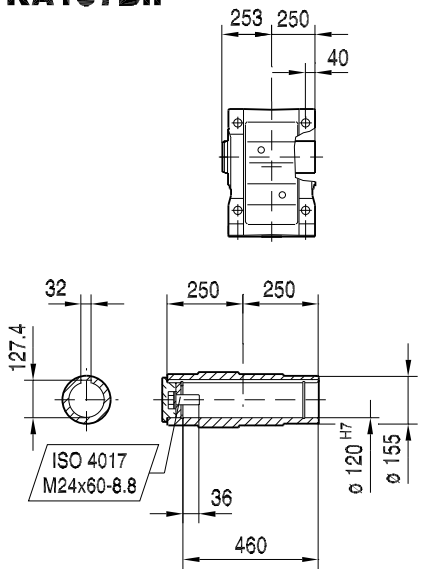
(→ 127)	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..
AC	221	270	316	316	394	394	394	510	510
AD	172	228	253	253	283	283	283	397	397
ADS	172	228	253	253	283	283	283	397	397
L	1013	1054	1123	1183	1256	1256	1306	1395	1395
LS	1125	1191	1312	1372	1461	1461	1511	1580	1580
LB	398	439	508	568	641	641	691	780	780
LBS	510	576	697	757	846	846	896	965	965

33 186 00 09

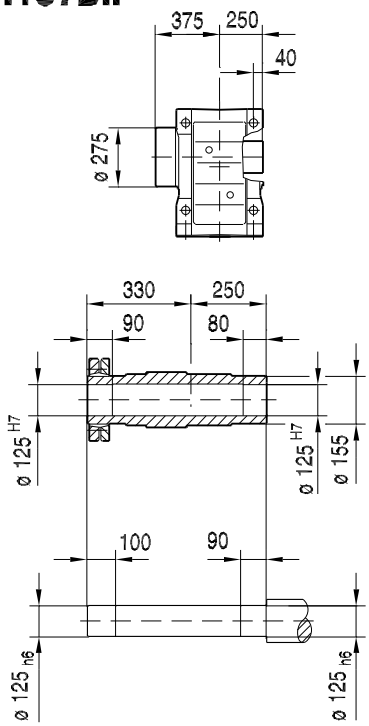
K157..



KA157B..



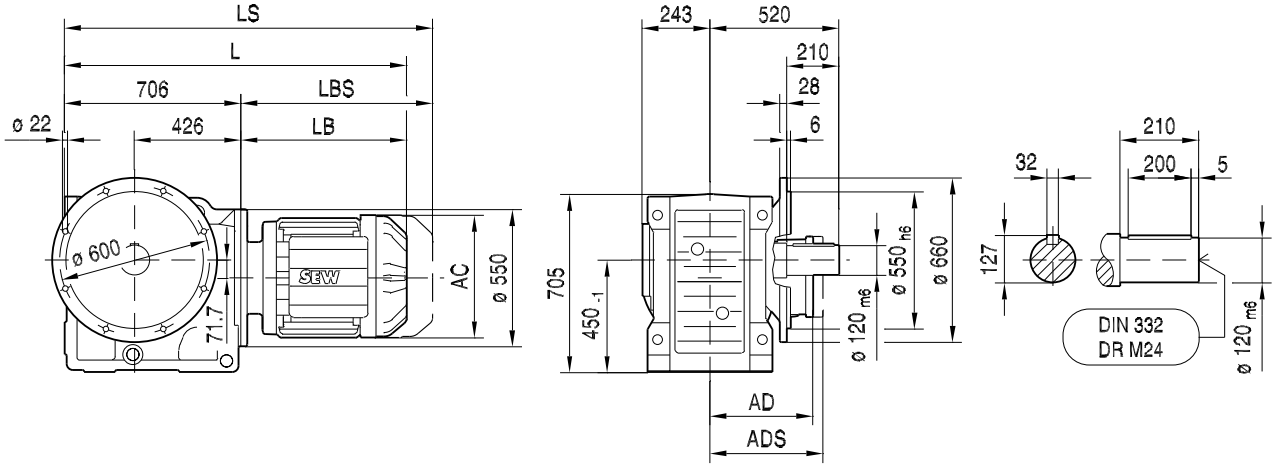
KH157B..



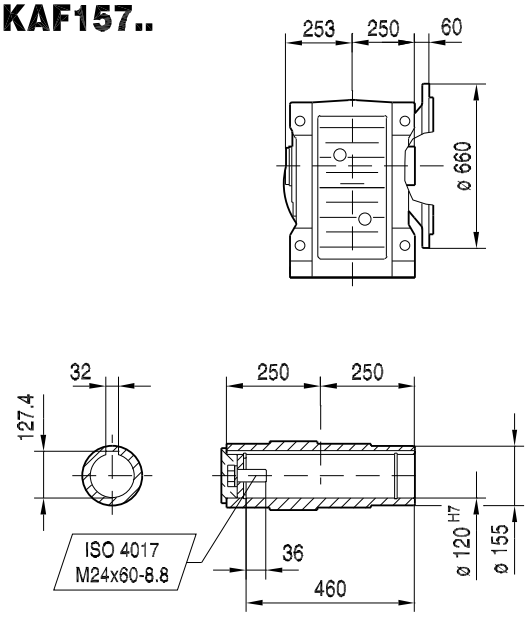
(→ 127)	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..	
AC	316	316	394	394	394	510	510	
AD	253	253	283	283	283	397	397	
ADS	253	253	283	283	283	397	397	
L	1206	1266	1339	1339	1389	1477	1477	
LS	1395	1455	1544	1544	1594	1662	1662	
LB	500	560	633	633	683	771	771	
LBS	689	749	838	838	888	956	956	

33 187 00 09

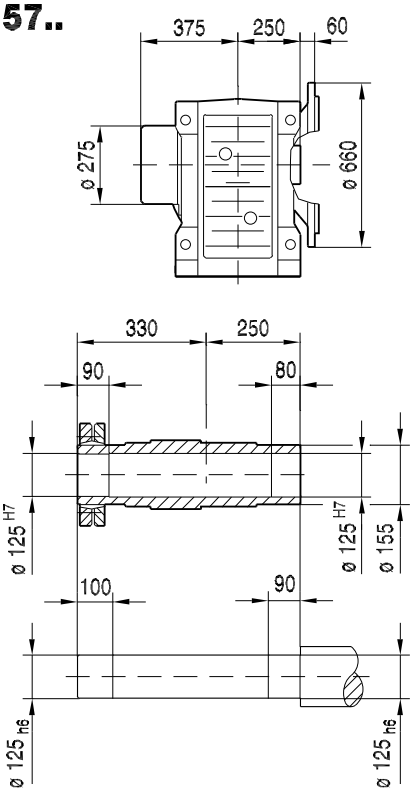
KF157..



KAF157..



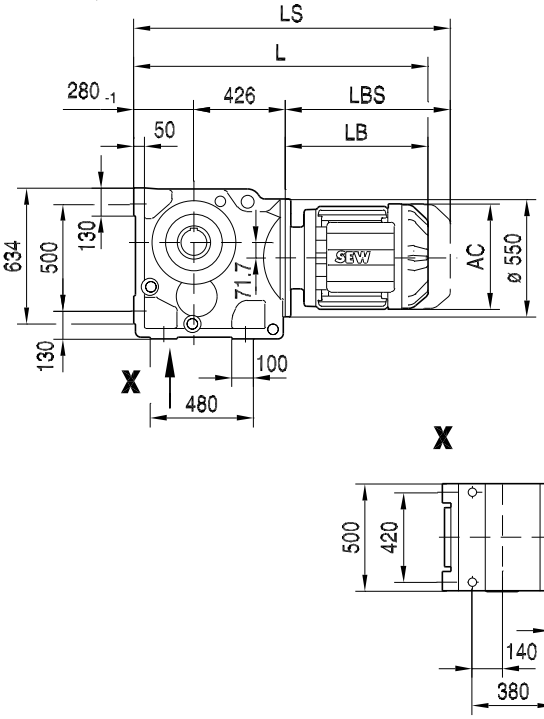
KHF157..



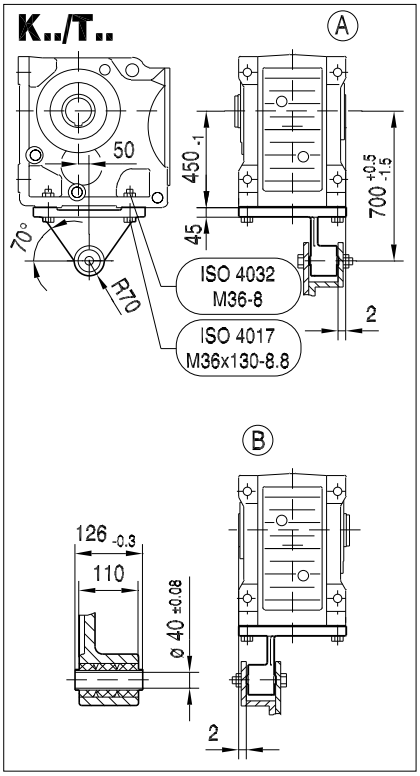
(→ 127)	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..	
AC	316	316	394	394	394	510	510	
AD	253	253	283	283	283	397	397	
ADS	253	253	283	283	283	397	397	
L	1206	1266	1339	1339	1389	1477	1477	
LS	1395	1455	1544	1544	1594	1662	1662	
LB	500	560	633	633	683	771	771	
LBS	689	749	838	838	888	956	956	

33 188 00 09

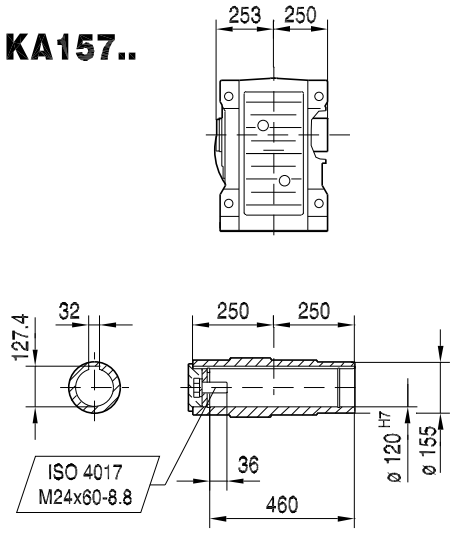
KA157..



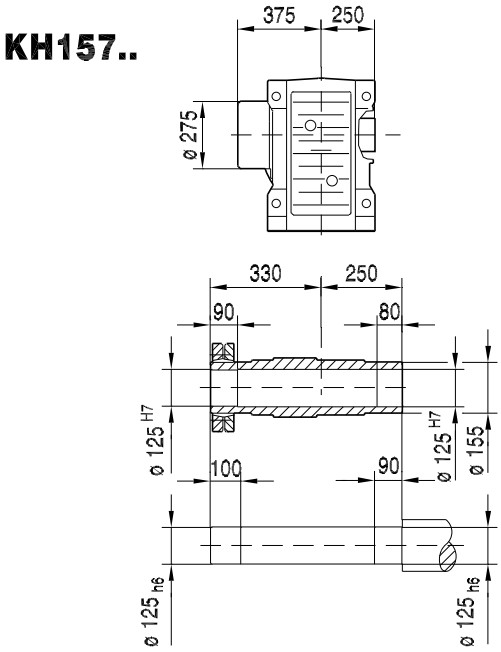
K../T..



KA157..



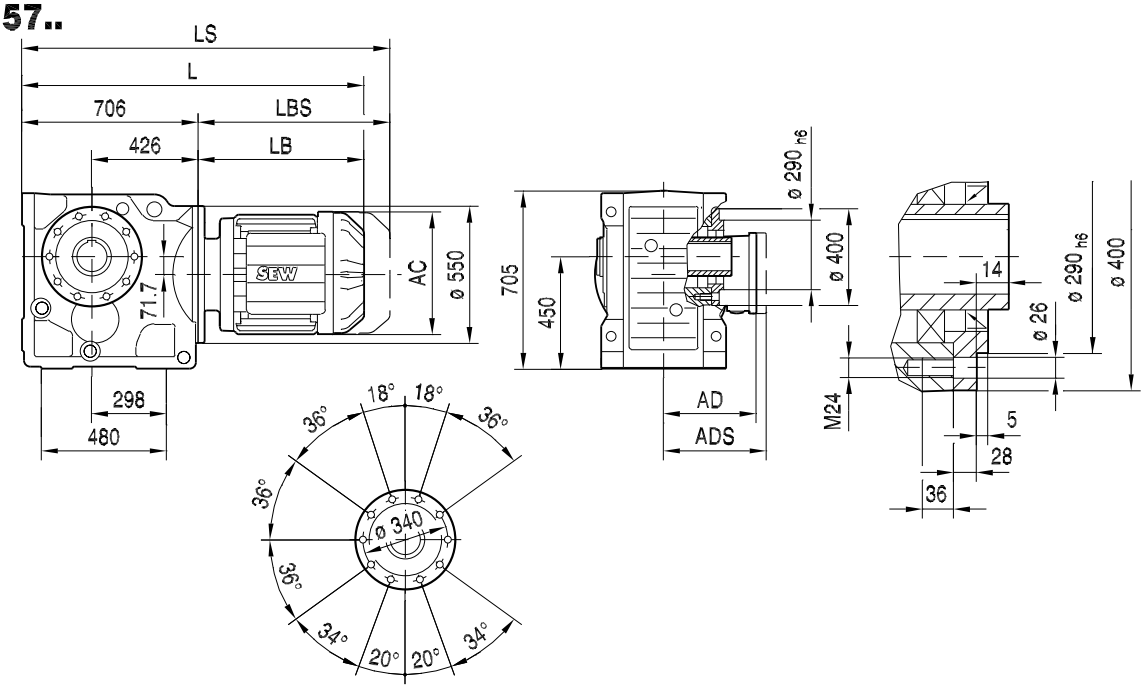
KH157..



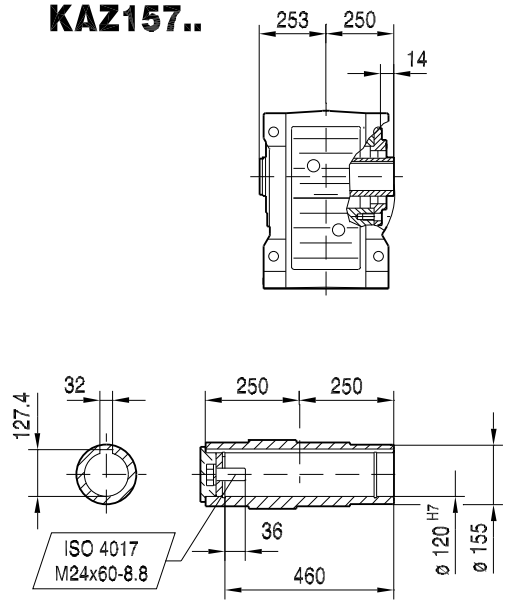
(→ 127)	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..	
AC	316	316	394	394	394	510	510	
AD	253	253	283	283	283	397	397	
ADS	253	253	283	283	283	397	397	
L	1206	1266	1339	1339	1389	1477	1477	
LS	1395	1455	1544	1544	1594	1662	1662	
LB	500	560	633	633	683	771	771	
LBS	689	749	838	838	888	956	956	

33 189 00 09

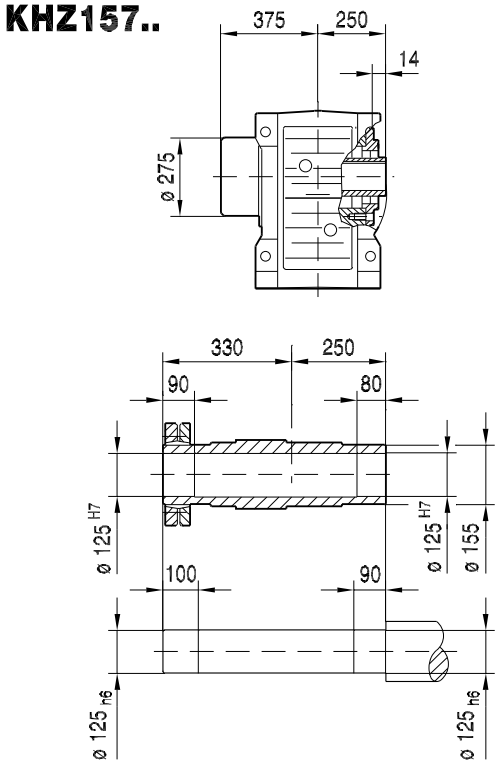
KAZ157..



KAZ157..

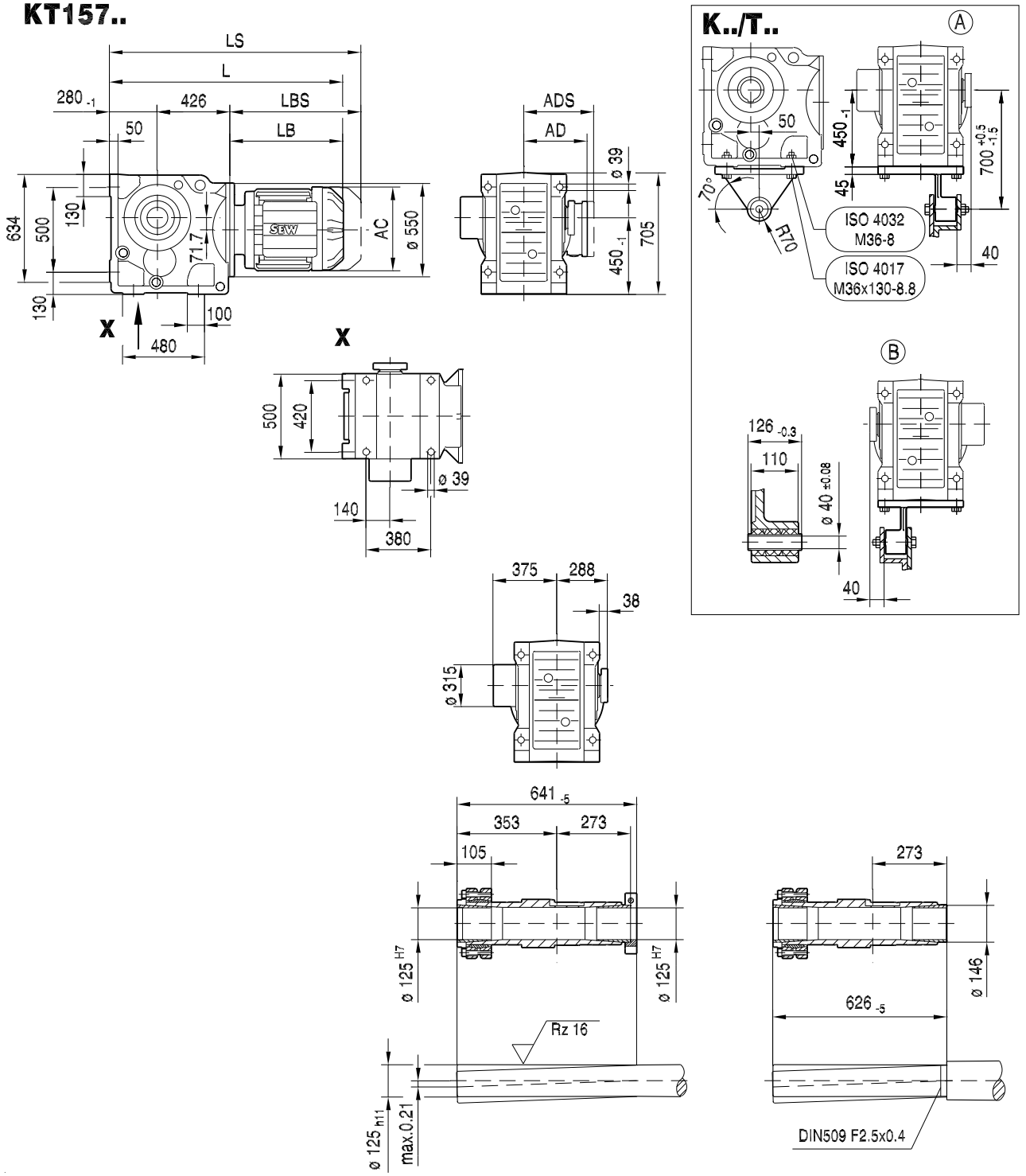


KHZ157..



(→ 127)	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..	
AC	316	316	394	394	394	510	510	
AD	253	253	283	283	283	397	397	
ADS	253	253	283	283	283	397	397	
L	1206	1266	1339	1339	1389	1477	1477	
LS	1395	1455	1544	1544	1594	1662	1662	
LB	500	560	633	633	683	771	771	
LBS	689	749	838	838	888	956	956	

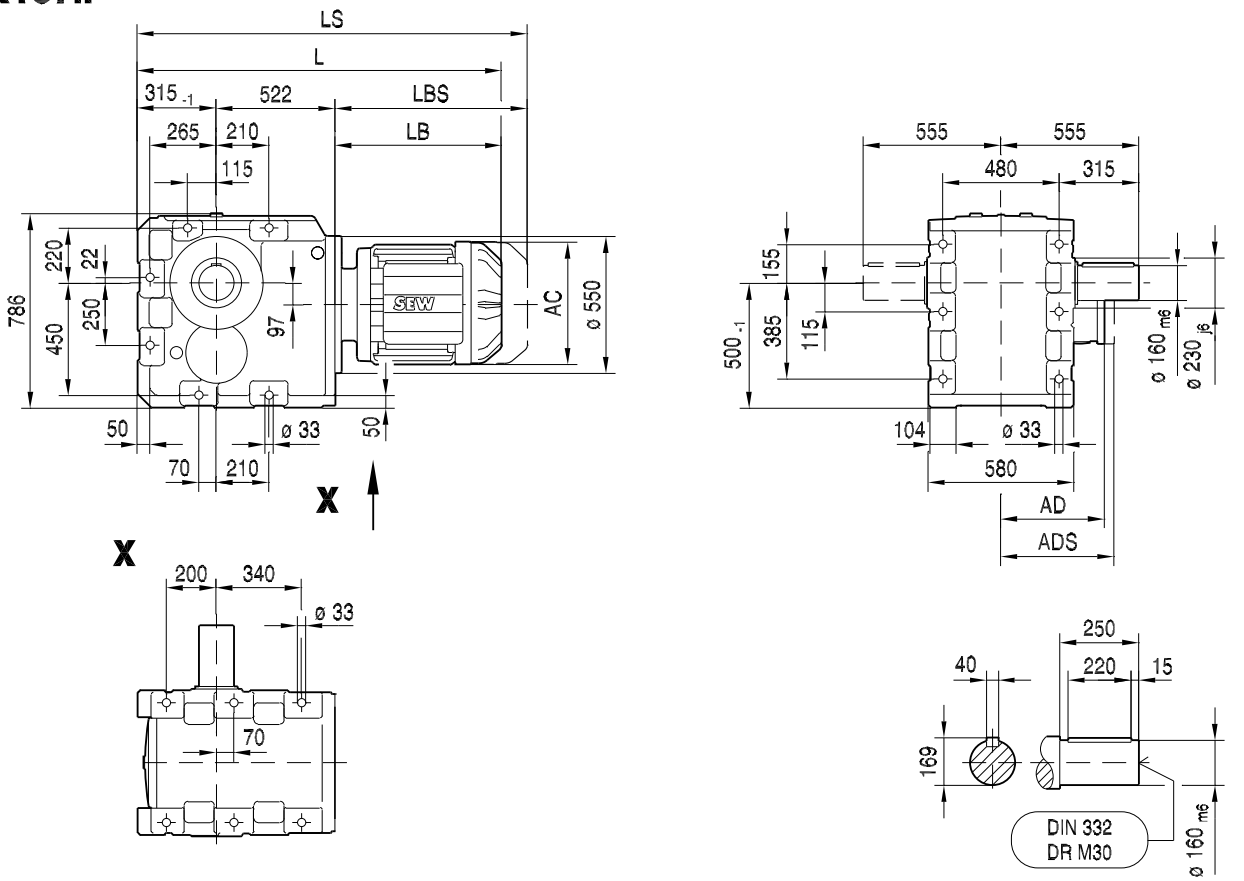
33 190 00 09



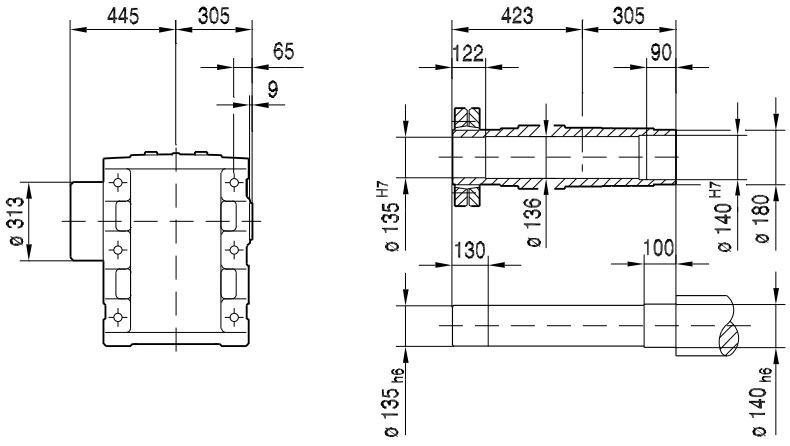
(→ 127)	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..	
AC	316	316	394	394	394	510	510	
AD	253	253	283	283	283	397	397	
ADS	253	253	283	283	283	397	397	
L	1206	1266	1339	1339	1389	1477	1477	
LS	1395	1455	1544	1544	1594	1662	1662	
LB	500	560	633	633	683	771	771	
LBS	689	749	838	838	888	956	956	

33 191 00 09

K167..



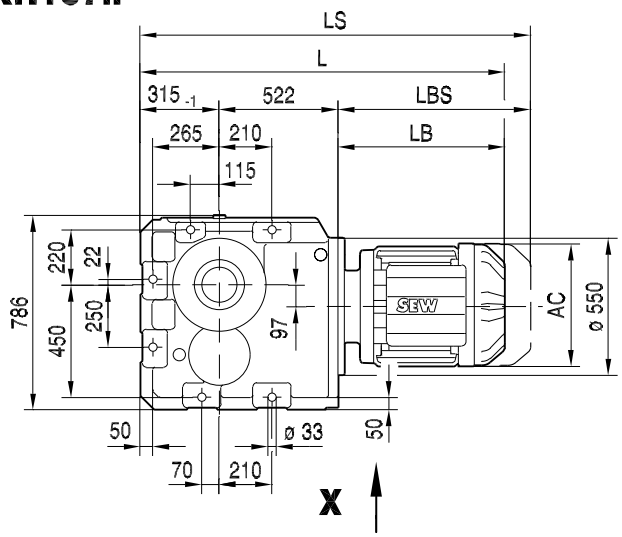
KH167B..

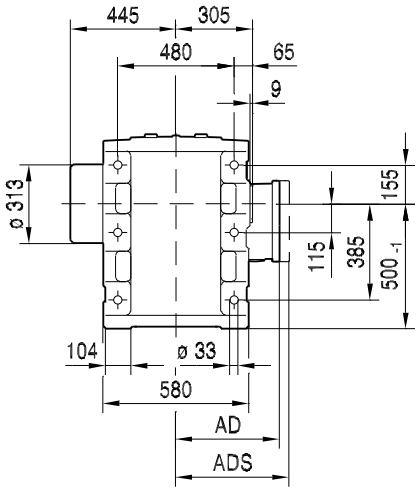


(→ 127)	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..	
AC	316	316	394	394	394	510	510	
AD	253	253	283	283	283	397	397	
ADS	253	253	283	283	283	397	397	
L	1337	1397	1470	1470	1520	1608	1608	
LS	1526	1586	1675	1675	1725	1793	1793	
LB	500	560	633	633	683	771	771	
LBS	689	749	838	838	888	956	956	

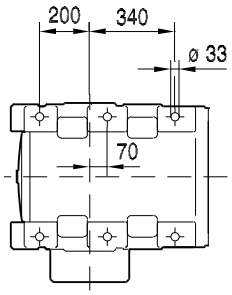
33 192 00 09

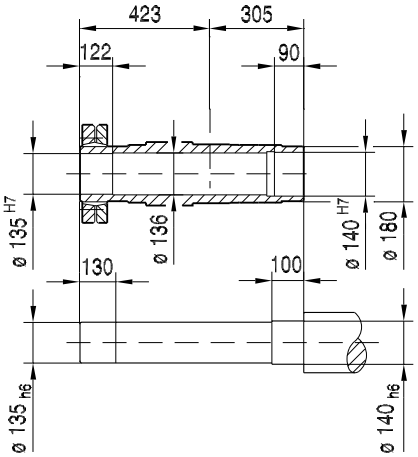
KH167..





X

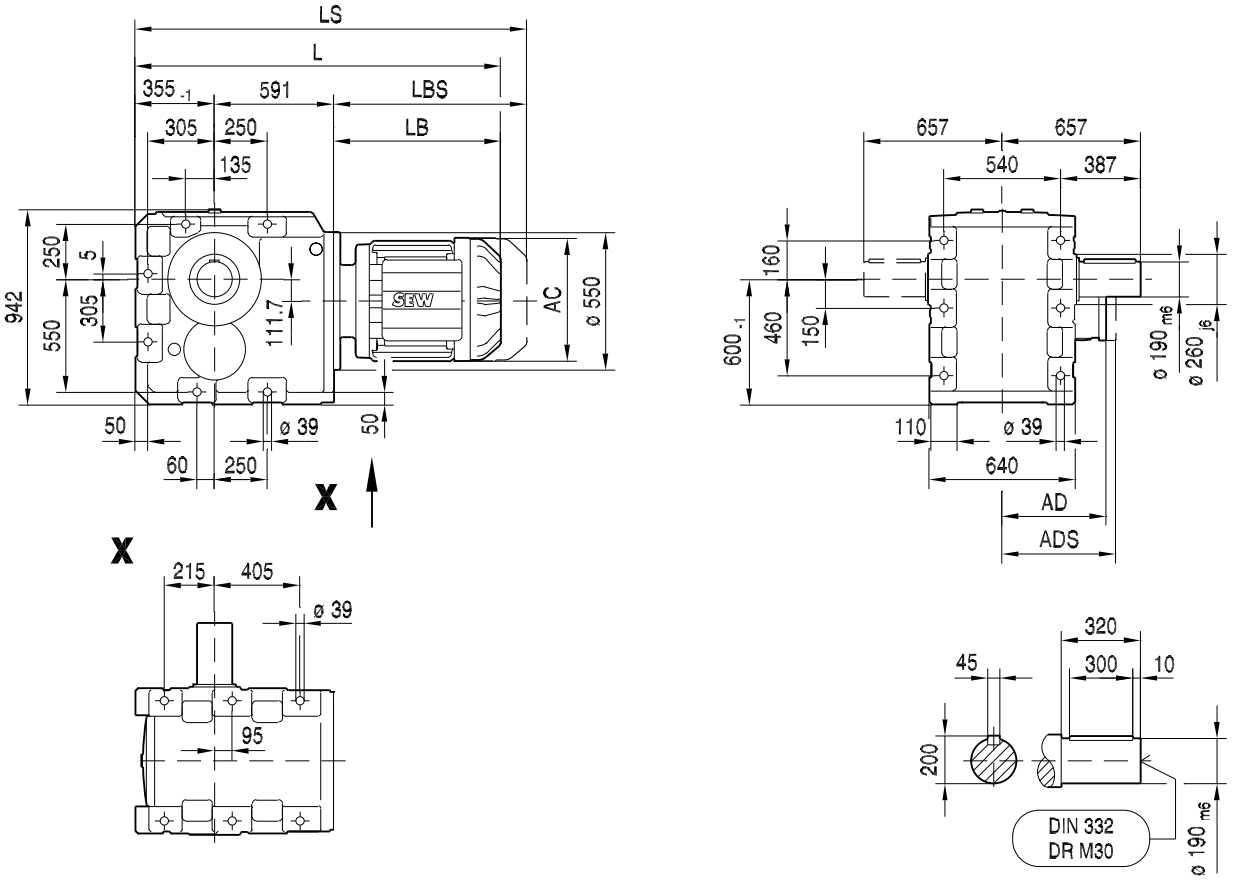




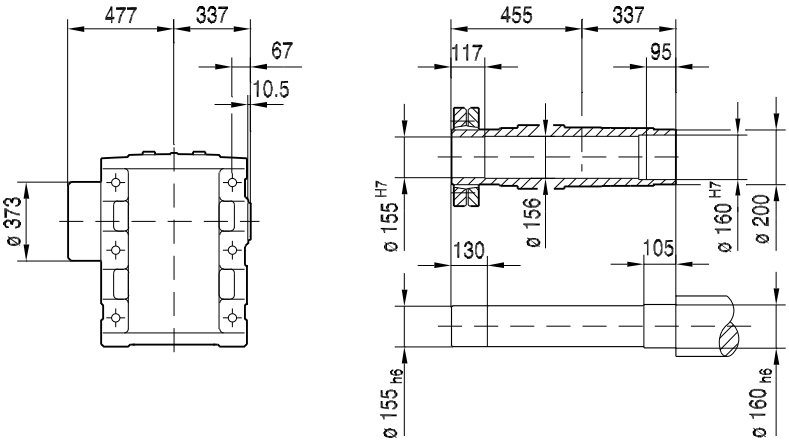
(→ 127)	EDR180S/M	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..	
AC	316	316	394	394	394	510	510	
AD	253	253	283	283	283	397	397	
ADS	253	253	283	283	283	397	397	
L	1337	1397	1470	1470	1520	1608	1608	
LS	1526	1586	1675	1675	1725	1793	1793	
LB	500	560	633	633	683	771	771	
LBS	689	749	838	838	888	956	956	

33 193 00 09

K187..



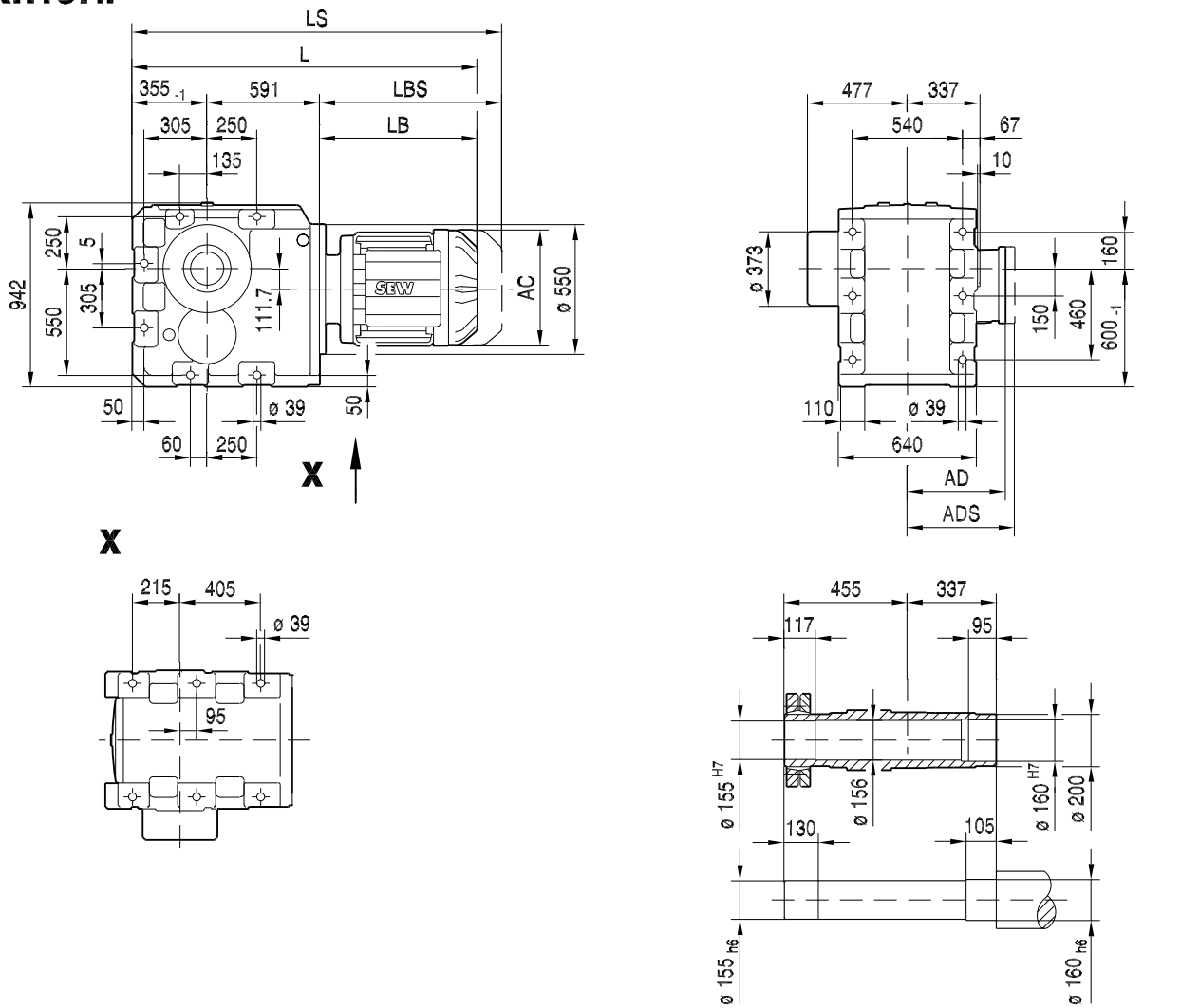
KH187B..



(→ 127)	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..		
AC	316	394	394	394	510	510		
AD	253	283	283	283	397	397		
ADS	253	283	283	283	397	397		
L	1506	1579	1579	1629	1717	1717		
LS	1695	1784	1784	1834	1902	1902		
LB	560	633	633	683	771	771		
LBS	749	838	838	888	956	956		

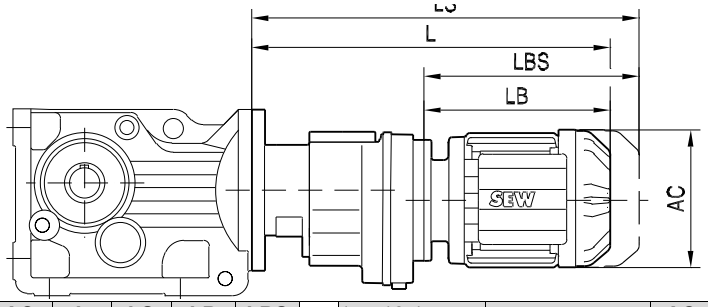
33 194 00 09

KH187..



(→ 127)	EDR180L/LC	EDR200	EDR225S	EDR225M/MC	DV250M	DV280..		
AC	316	394	394	394	510	510		
AD	253	283	283	283	397	397		
ADS	253	283	283	283	397	397		
L	1506	1579	1579	1629	1717	1717		
LS	1695	1784	1784	1834	1902	1902		
LB	560	633	633	683	771	771		
LBS	749	838	838	888	956	956		

33 133 00 06



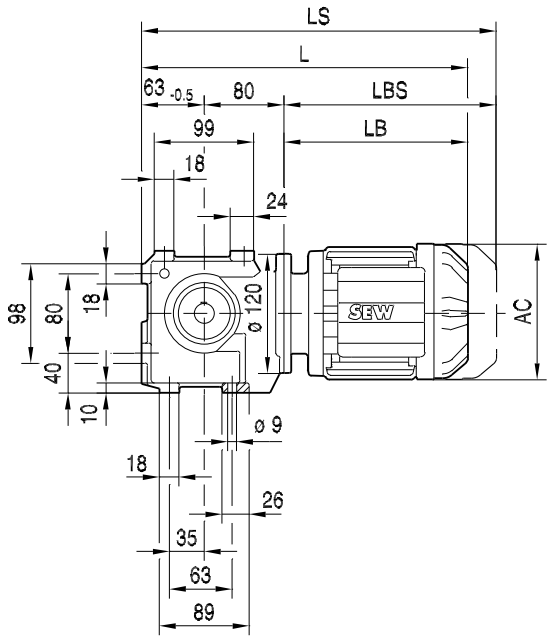
(→ 127)		AC	L	LS	LB	LBS
K..37R17	DR63S..	132	324	379	149	204
	EDR71S..	139	335	403	160	228
K..47R17	DR63S..	132	356	411	191	246
	EDR71S..	139	367	435	202	270
	EDR71M..	139	392	460	227	295
	EDR80S..	156	401	482	236	317
K..57R37	DR63..	132	356	411	191	246
K..67R37	EDR71S..	139	367	435	202	270
	EDR71M..	139	392	460	227	295
	EDR80S..	156	401	482	236	317
	EDR80M..	156	432	513	267	348
K..77R37	DR63..	132	348	403	191	246
	EDR71S..	139	359	427	202	270
	EDR71M..	139	384	452	227	295
	EDR80S..	156	393	474	236	317
	EDR80M..	156	424	505	267	348
	EDR90M..	179	426	519	269	362
	EDR90L..	179	446	539	289	382
K..87R57	DR63..	132	401	456	185	240
	EDR71S..	139	412	479	196	263
	EDR71M..	139	437	504	221	288
	EDR80S..	156	446	527	230	311
	EDR80M..	156	477	558	261	342
	EDR90M..	179	478	572	262	356
	EDR90L..	179	498	592	282	376
	EDR100M..	197	528	622	312	406
K..97R57	DR63..	132	396	451	185	240
	EDR71S..	139	407	474	196	263
	EDR71M..	139	432	499	221	288
	EDR80S..	156	441	522	230	311
	EDR80M..	156	472	553	261	342
	EDR90M..	179	473	567	262	356
	EDR90L..	179	493	587	282	376
	EDR100M..	197	523	617	312	406
	EDR100LC..	197	553	647	342	436
K..107R77	DR63..	132	426	481	179	234
	EDR71S..	139	437	504	190	257
	EDR71M..	139	462	529	215	282
	EDR80S..	156	470	551	223	304
	EDR80M..	156	501	582	254	335
	EDR90M..	179	501	595	254	348
	EDR90L..	179	521	615	274	368
	EDR100M..	197	551	645	304	398
	EDR100LC..	197	581	675	334	428
	EDR132S..	221	626	738	379	491
	EDR132M/MC..	221	676	788	429	541
K..127R77	DR63..	132	411	466	179	234

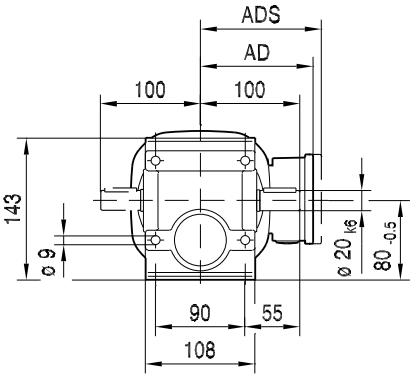
(→ 127)		AC	L	LS	LB	LBS
K..127R77	EDR71S..	139	422	489	190	257
	EDR71M..	139	447	514	215	282
	EDR80S..	156	455	536	223	304
	EDR80M..	156	486	567	254	335
	EDR90M..	179	486	580	254	348
	EDR90L..	179	506	600	274	368
	EDR100M..	197	536	630	304	398
	EDR100LC..	197	566	660	334	428
	EDR132S..	221	611	723	379	491
K..127R87	EDR90M..	179	530	624	250	344
	EDR90L..	179	550	644	270	364
	EDR100M..	197	580	674	300	394
	EDR100LC..	197	610	704	330	424
	EDR132S..	221	654	766	374	486
	EDR132M/MC..	221	704	816	424	536
	EDR160..	272	745	882	465	602
K..157R97	EDR71M..	139	529	596	204	271
K..167R97	EDR80S..	156	538	619	213	294
	EDR80M..	156	569	650	244	325
	EDR90M..	179	569	663	244	338
	EDR90L..	179	589	683	264	358
	EDR100M..	197	619	713	294	388
	EDR100LC..	197	649	743	324	418
	EDR132S..	221	694	806	369	481
	EDR132M/MC..	221	744	856	419	531
	EDR160..	272	785	922	460	597
K..187R97	EDR71M..	139	529	596	204	271
	EDR80S..	156	538	619	213	294
	EDR80M..	156	569	650	244	325
	EDR90M..	179	569	663	244	338
	EDR90L..	179	589	683	264	358
	EDR100M..	197	619	713	294	388
	EDR100LC..	197	649	743	324	418
	EDR132S..	221	694	806	369	481
	EDR132M/MC..	221	744	856	419	531
	EDR160..	272	785	922	460	597
	EDR180M..	317	871	1070	546	745
K..157R107	EDR132MC..	221	795	907	413	525
	EDR160..	272	836	973	454	591
	EDR180M	317	922	1121	540	739
	EDR180L/HC	317	982	1181	600	799
K..167R107	EDR132M/MC..	221	795	907	413	525
K..187R107	EDR160..	272	836	973	454	591
	EDR180M..	317	922	1121	540	739
	EDR180L/HC	317	982	1181	600	799
	EDR225S..	394	1023	1243	641	861
	EDR225M/MC..	394	1088	1308	706	926

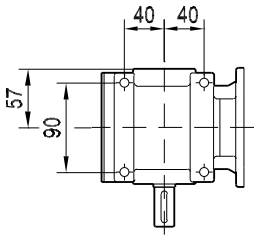
10.4 Helical-worm gearmotors

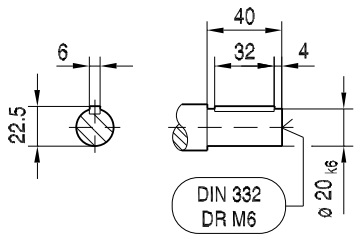
02 083 00 09

S37..





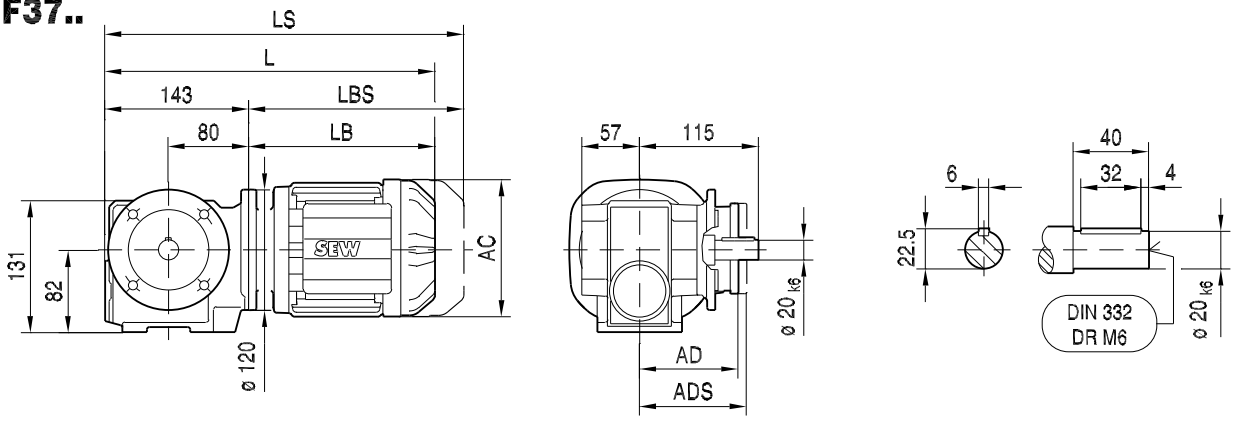




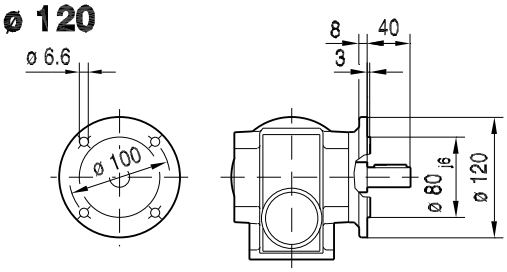
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M		
AC	132	139	139	156	156	179		
AD	105	129	129	139	139	150		
ADS	105	129	129	139	139	150		
L	334	346	371	380	411	415		
LS	389	413	438	461	492	508		
LB	191	203	228	237	268	272		
LBS	246	270	295	318	349	365		

02 084 00 09

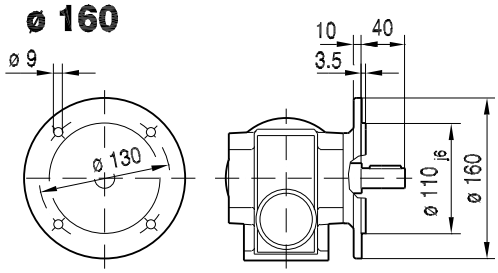
SF37..



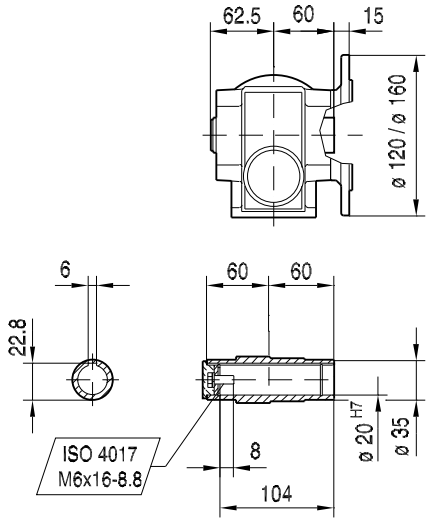
ø 120



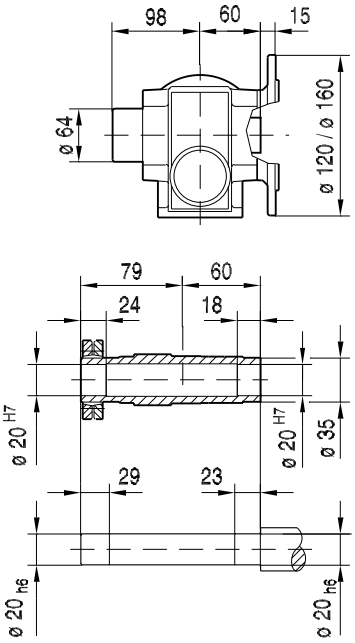
ø 160



SAF37..



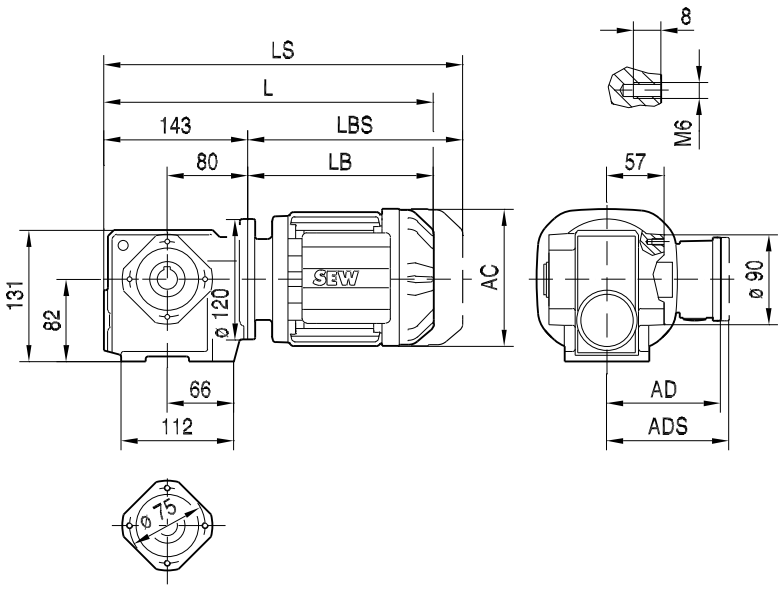
SHF37..



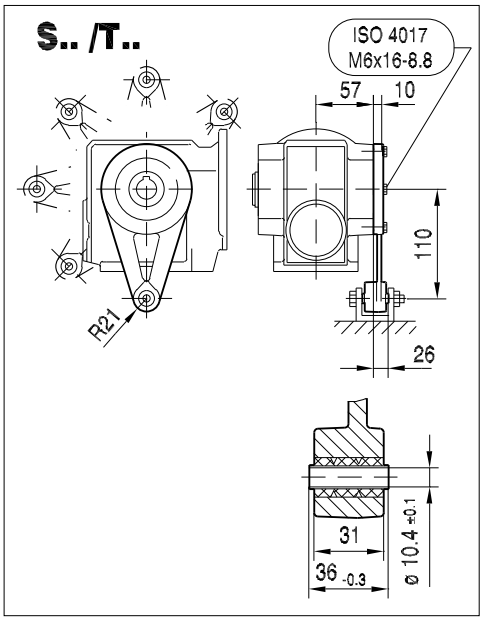
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M		
AC	132	139	139	156	156	179		
AD	105	129	129	139	139	150		
ADS	105	129	129	139	139	150		
L	334	346	371	380	411	415		
LS	389	413	438	461	492	508		
LB	191	203	228	237	268	272		
LBS	246	270	295	318	349	365		

02 085 00 09

SA37..

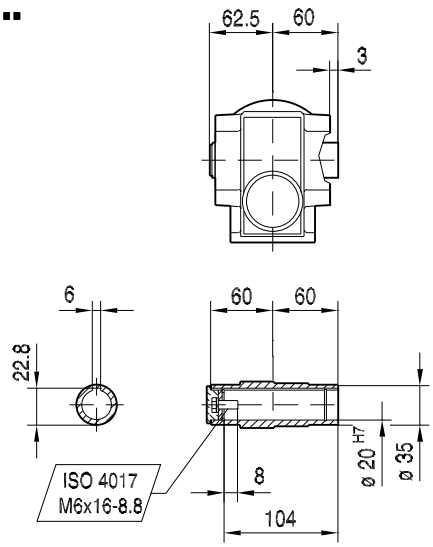


S.. /T..

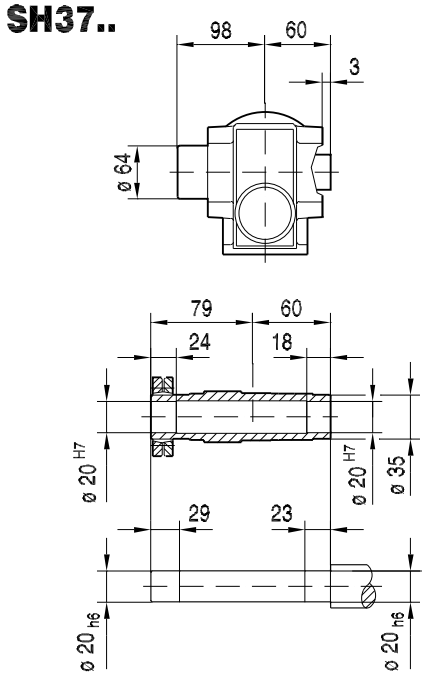


10

SA37..

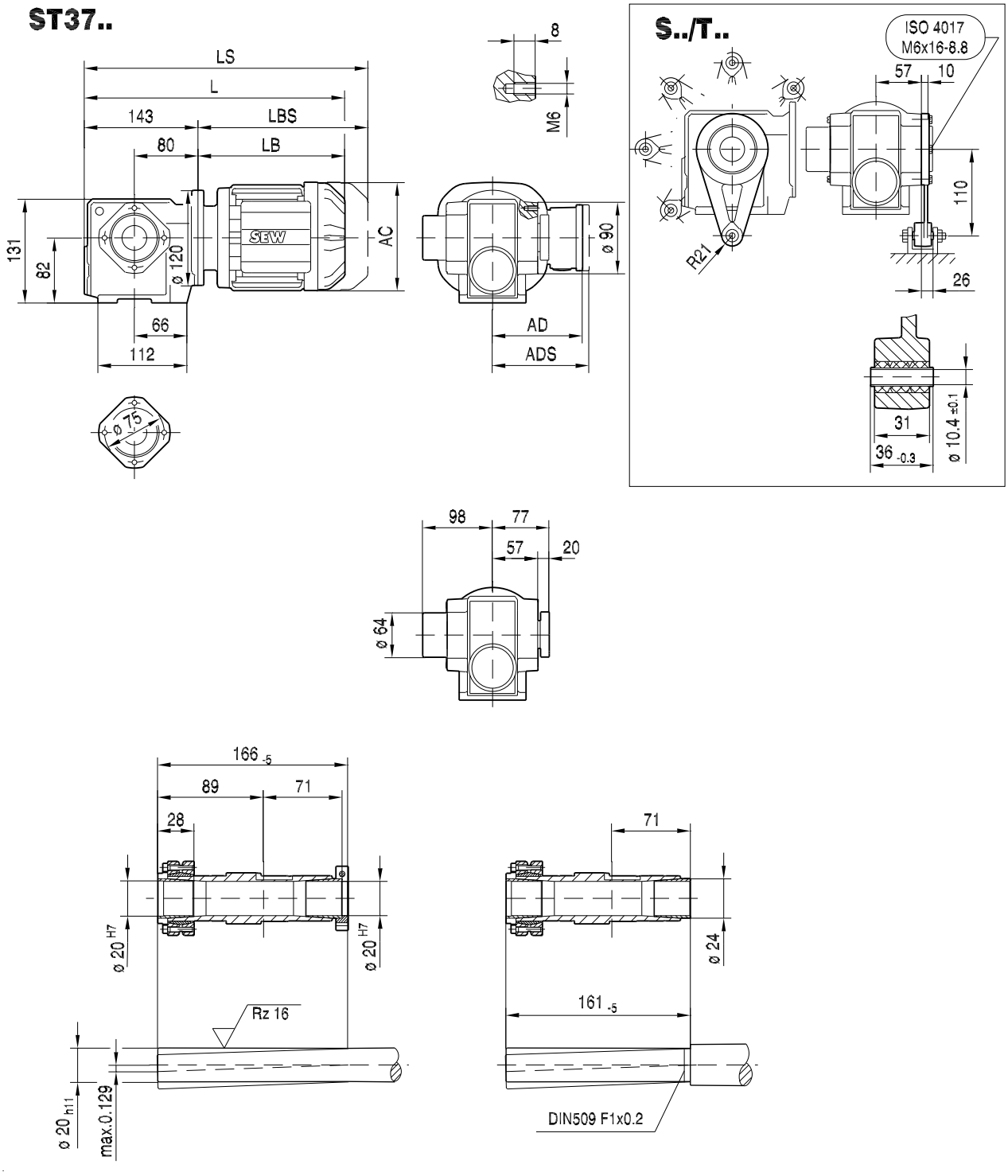


SH37..



(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M		
AC	132	139	139	156	156	179		
AD	105	129	129	139	139	150		
ADS	105	129	129	139	139	150		
L	334	346	371	380	411	415		
LS	389	413	438	461	492	508		
LB	191	203	228	237	268	272		
LBS	246	270	295	318	349	365		

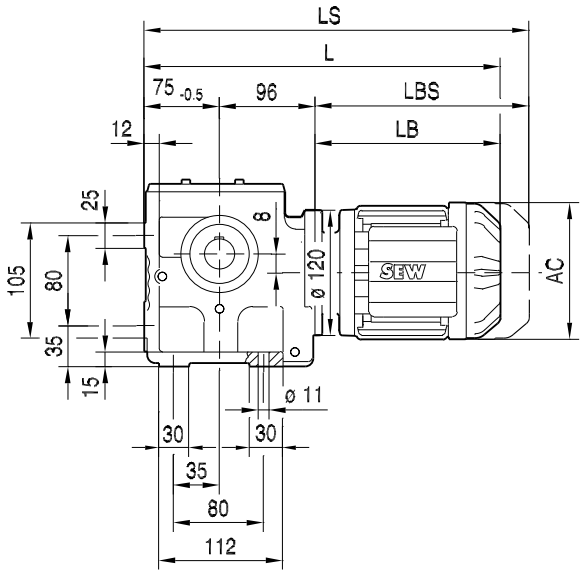
02 086 00 09

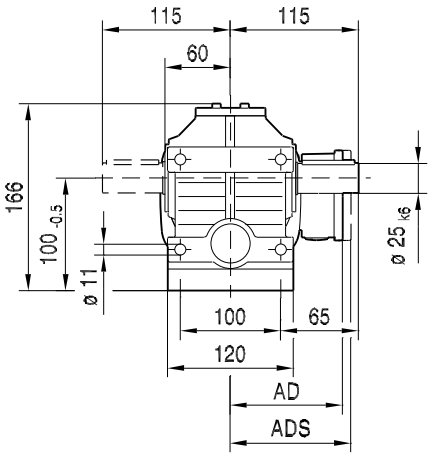


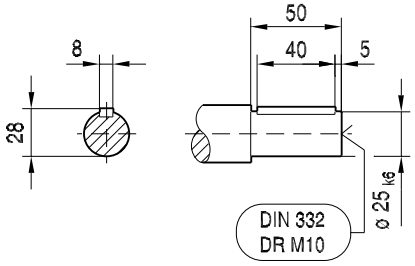
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M		
AC	132	139	139	156	156	179		
AD	105	129	129	139	139	150		
ADS	105	129	129	139	139	150		
L	334	346	371	380	411	415		
LS	389	413	438	461	492	508		
LB	191	203	228	237	268	272		
LBS	246	270	295	318	349	365		

02 087 00 09

S47..





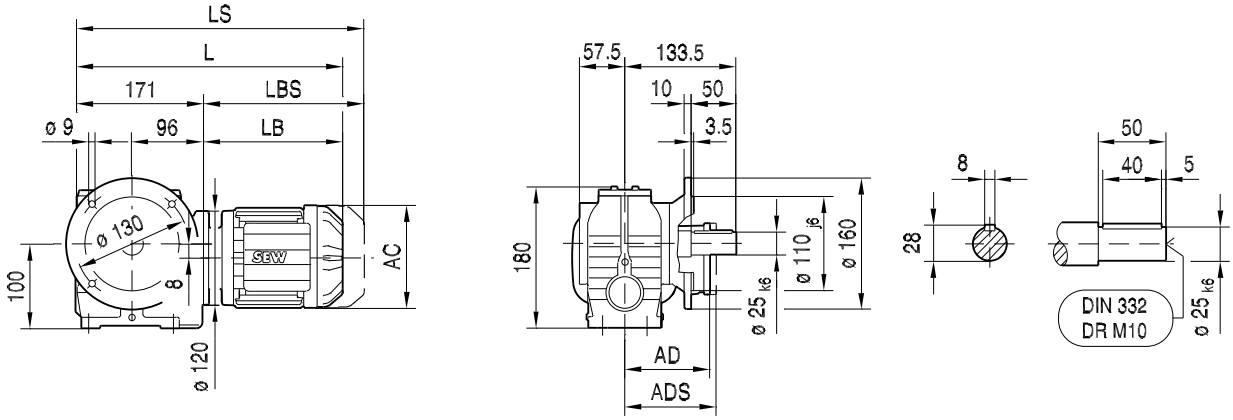


10

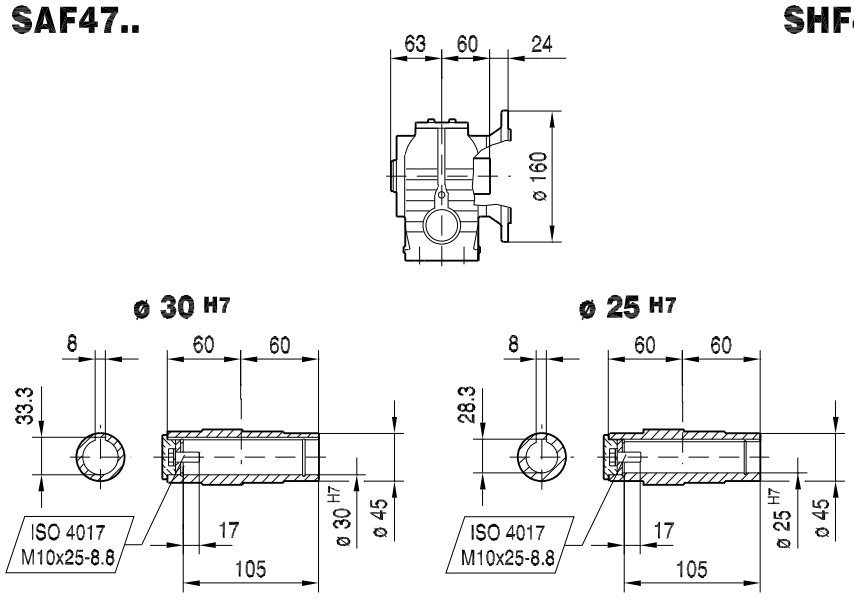
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	
AC	132	139	139	156	156	179	179	
AD	105	129	129	139	139	150	150	
ADS	105	129	129	139	139	150	150	
L	362	374	399	408	439	443	463	
LS	417	441	466	489	520	536	556	
LB	191	203	228	237	268	272	292	
LBS	246	270	295	318	349	365	385	

02 088 00 09

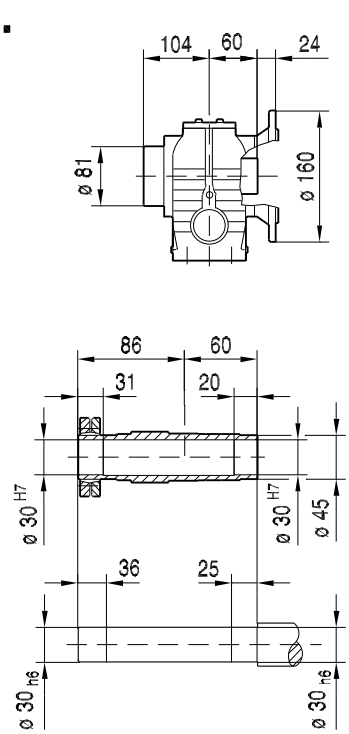
SF47..



SAF47..



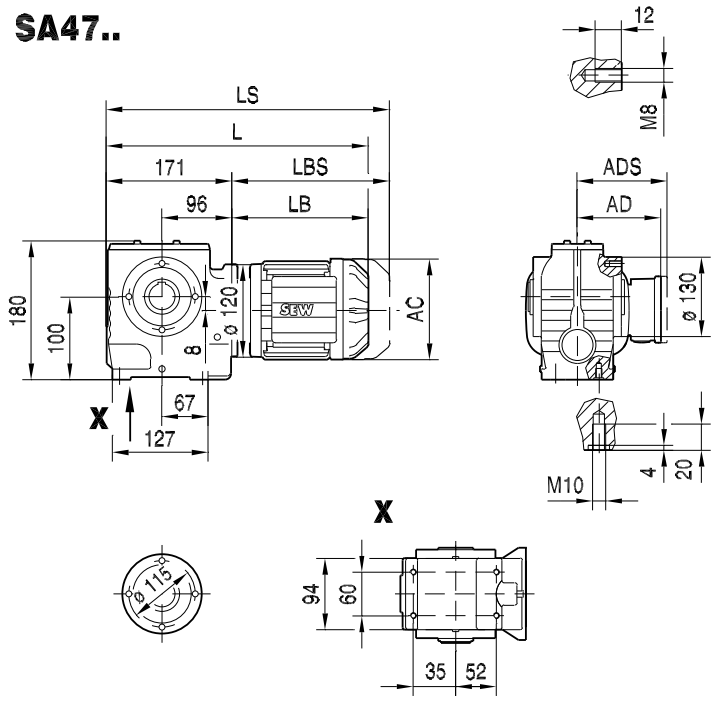
SHF47..



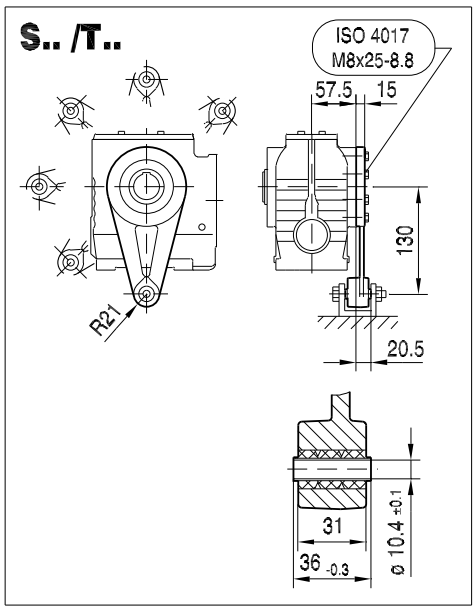
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	
AC	132	139	139	156	156	179	179	
AD	105	129	129	139	139	150	150	
ADS	105	129	129	139	139	150	150	
L	362	374	399	408	439	443	463	
LS	417	441	466	489	520	536	556	
LB	191	203	228	237	268	272	292	
LBS	246	270	295	318	349	365	385	

02 089 00 09

SA47..

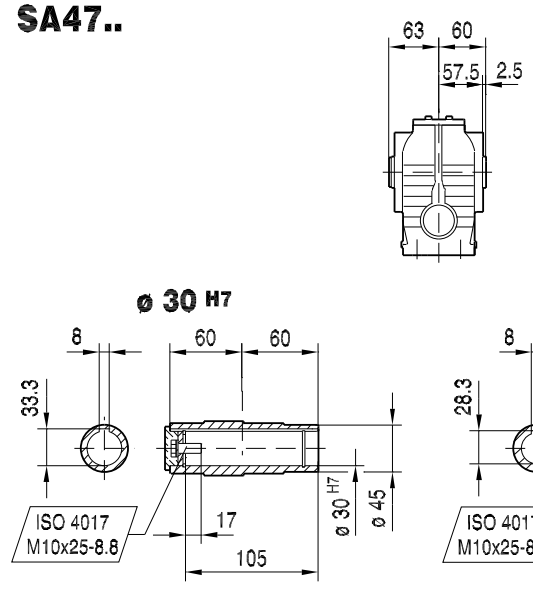


S.. /T..

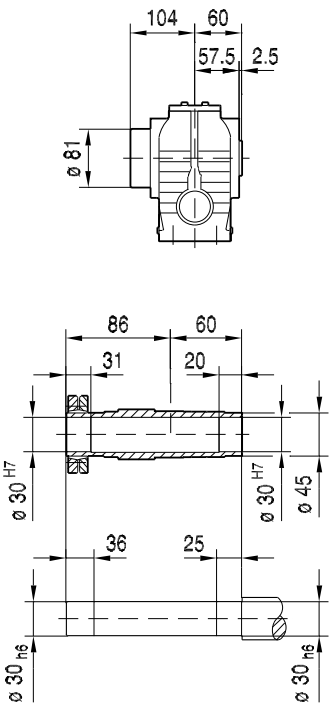


10

SA47..



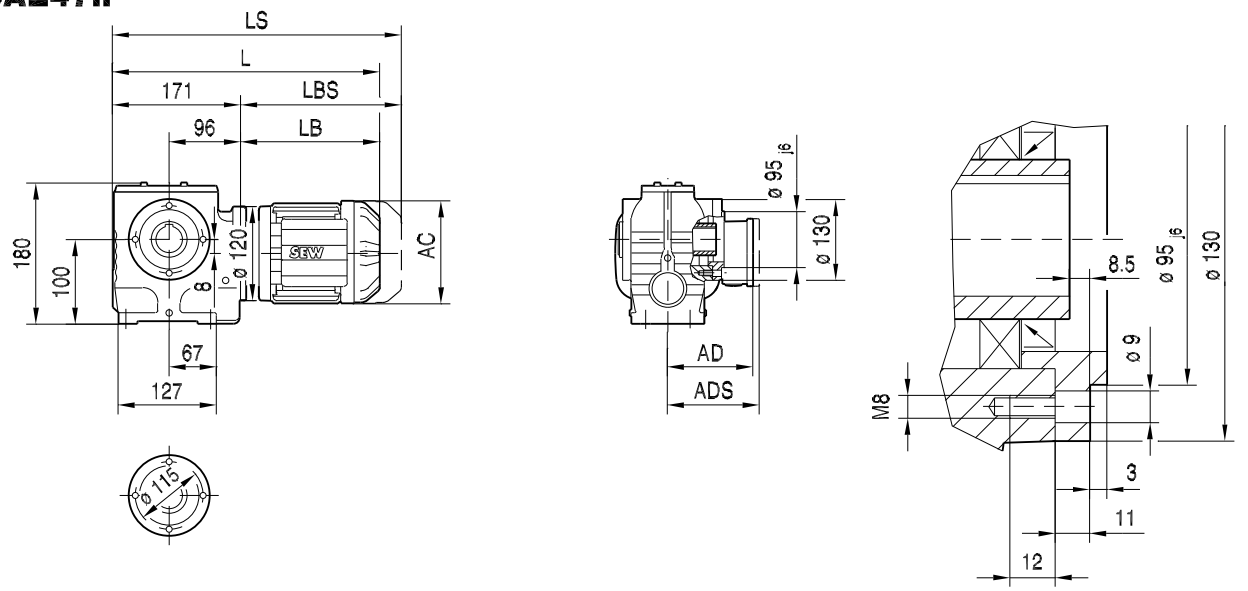
SH47..



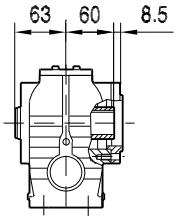
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	
AC	132	139	139	156	156	179	179	
AD	105	129	129	139	139	150	150	
ADS	105	129	129	139	139	150	150	
L	362	374	399	408	439	443	463	
LS	417	441	466	489	520	536	556	
LB	191	203	228	237	268	272	292	
LBS	246	270	295	318	349	365	385	

02 090 00 09

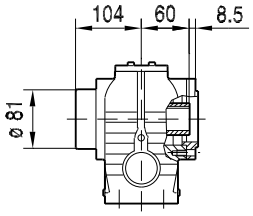
SAZ47..

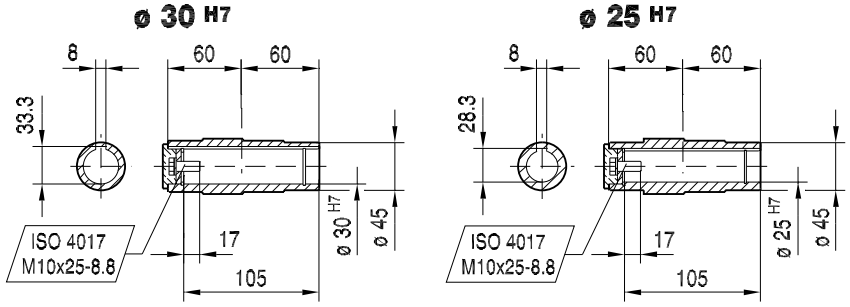


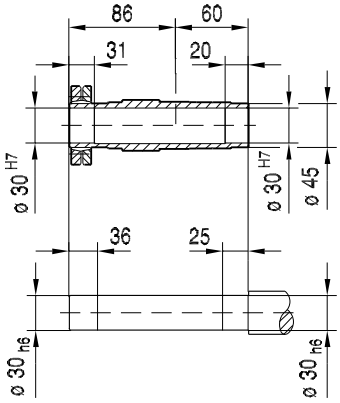
SAZ47..



SHZ47..



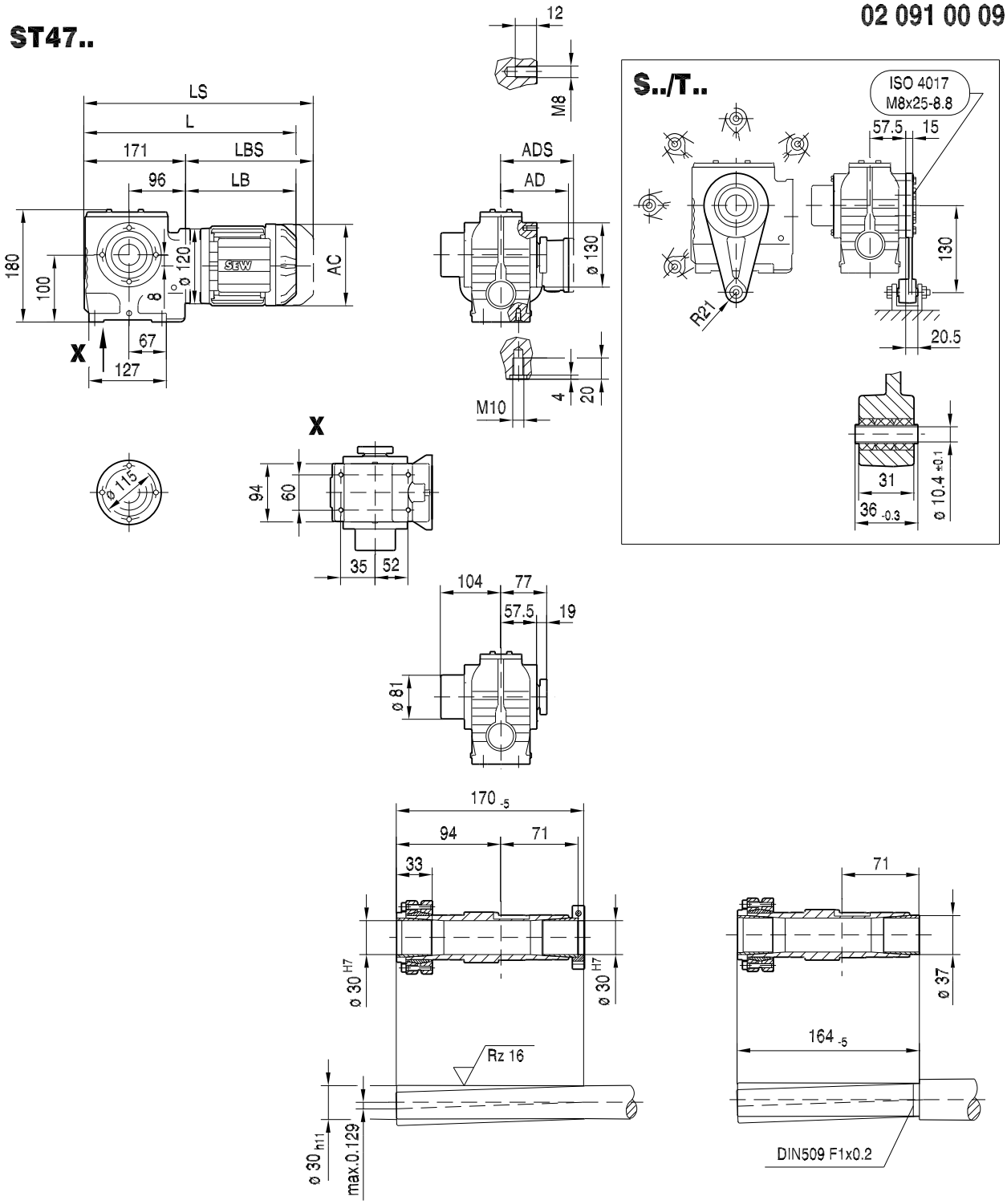




(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	
AC	132	139	139	156	156	179	179	
AD	105	129	129	139	139	150	150	
ADS	105	129	129	139	139	150	150	
L	362	374	399	408	439	443	463	
LS	417	441	466	489	520	536	556	
LB	191	203	228	237	268	272	292	
LBS	246	270	295	318	349	365	385	

02 091 00 09

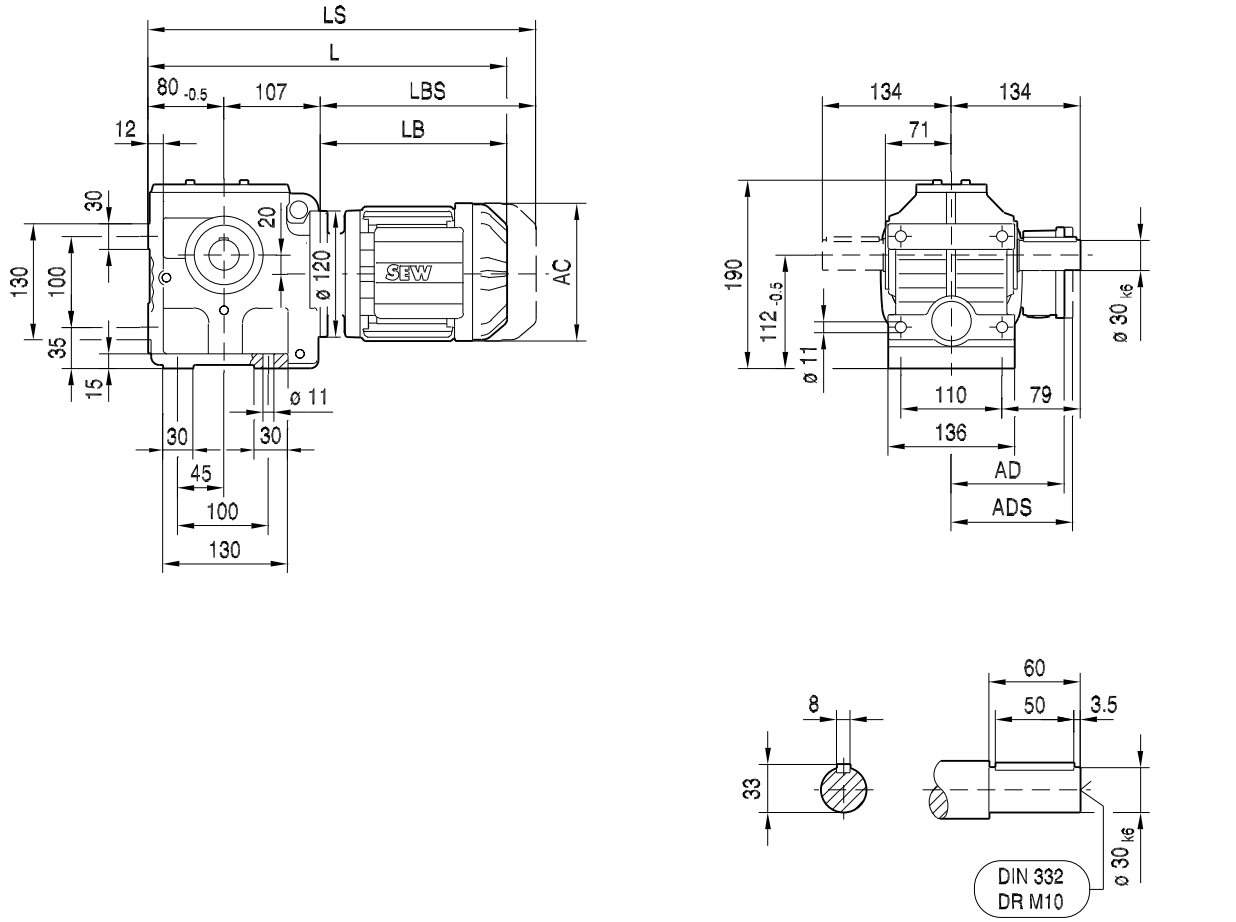
ST47..



(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	
AC	132	139	139	156	156	179	179	
AD	105	129	129	139	139	150	150	
ADS	105	129	129	139	139	150	150	
L	362	374	399	408	439	443	463	
LS	417	441	466	489	520	536	556	
LB	191	203	228	237	268	272	292	
LBS	246	270	295	318	349	365	385	

02 092 00 09

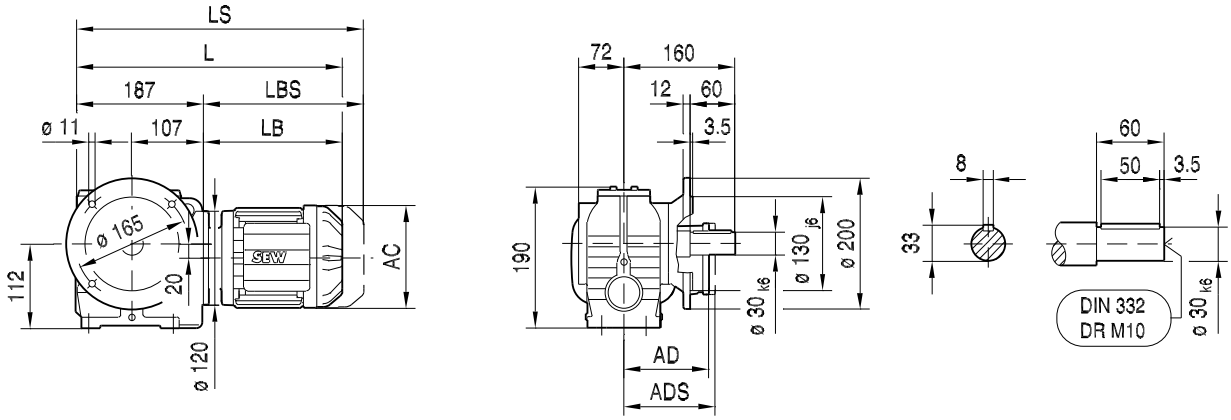
S57..



(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	378	390	415	424	455	459	479	509	539
LS	433	457	482	505	536	552	572	602	632
LB	191	203	228	237	268	272	292	322	352
LBS	246	270	295	318	349	365	385	415	445

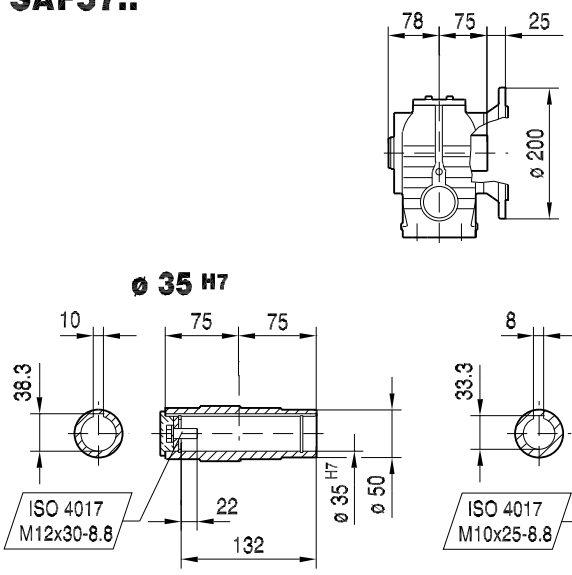
02 093 00 09

SF57..

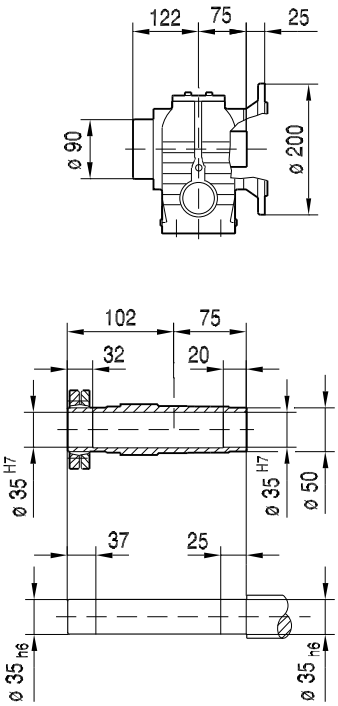


10

SAF57..



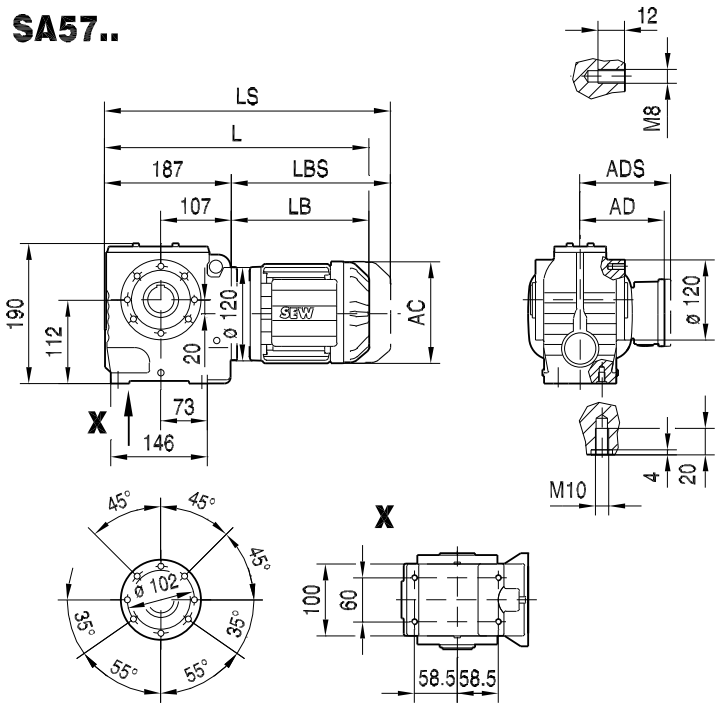
SHF57..



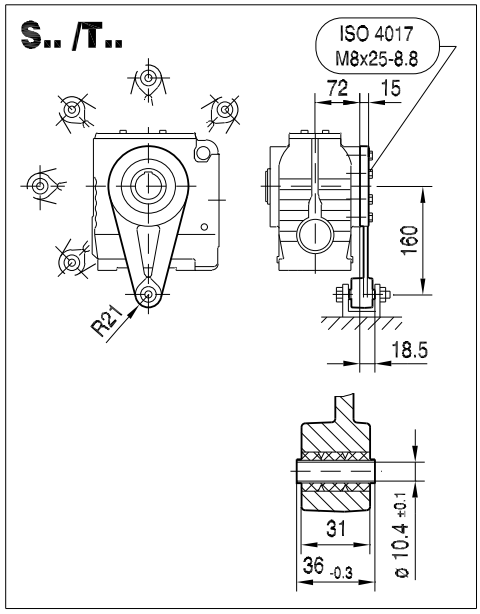
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	378	390	415	424	455	459	479	509	539
LS	433	457	482	505	536	552	572	602	632
LB	191	203	228	237	268	272	292	322	352
LBS	246	270	295	318	349	365	385	415	445

02 094 00 09

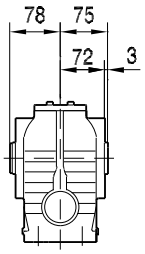
SA57..



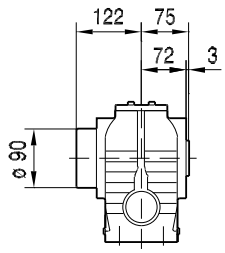
S.. /T..

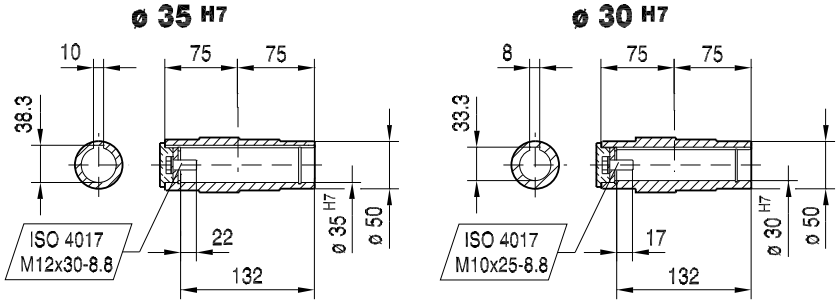


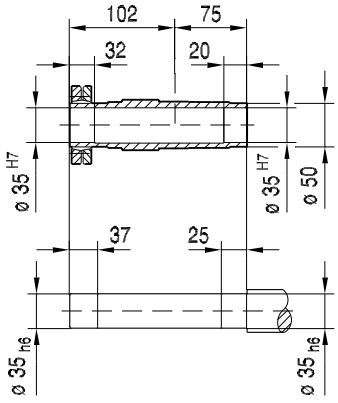
SA57..



SH57..



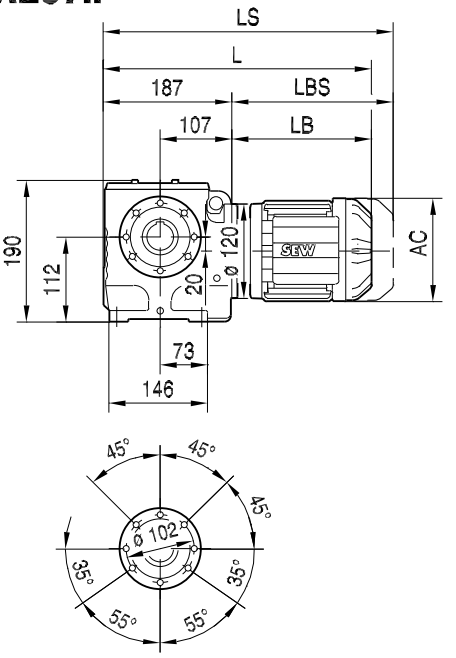


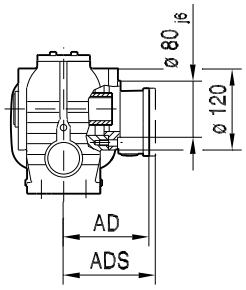


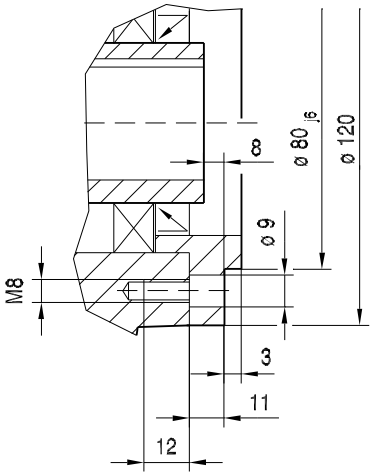
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	378	390	415	424	455	459	479	509	539
LS	433	457	482	505	536	552	572	602	632
LB	191	203	228	237	268	272	292	322	352
LBS	246	270	295	318	349	365	385	415	445

02 095 00 09

SAZ57..

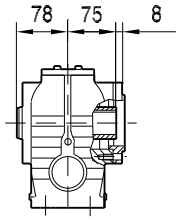


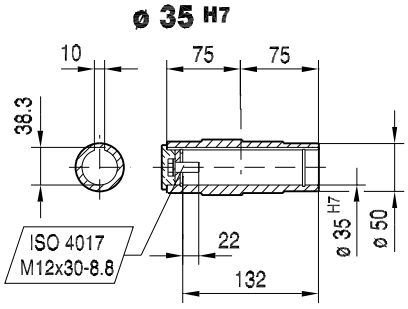


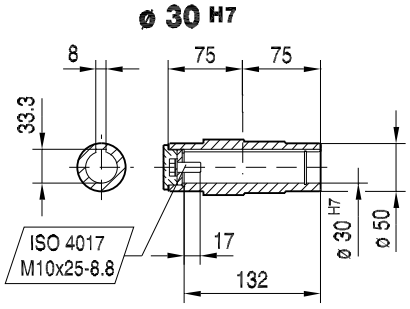


10

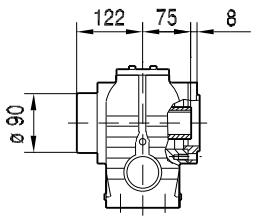
SAZ57..

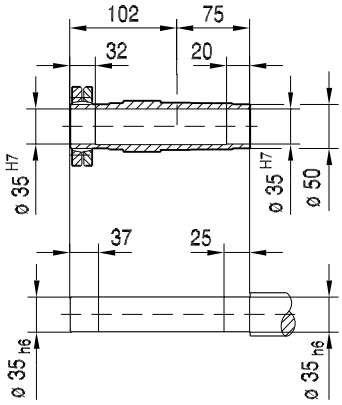






SHZ57..

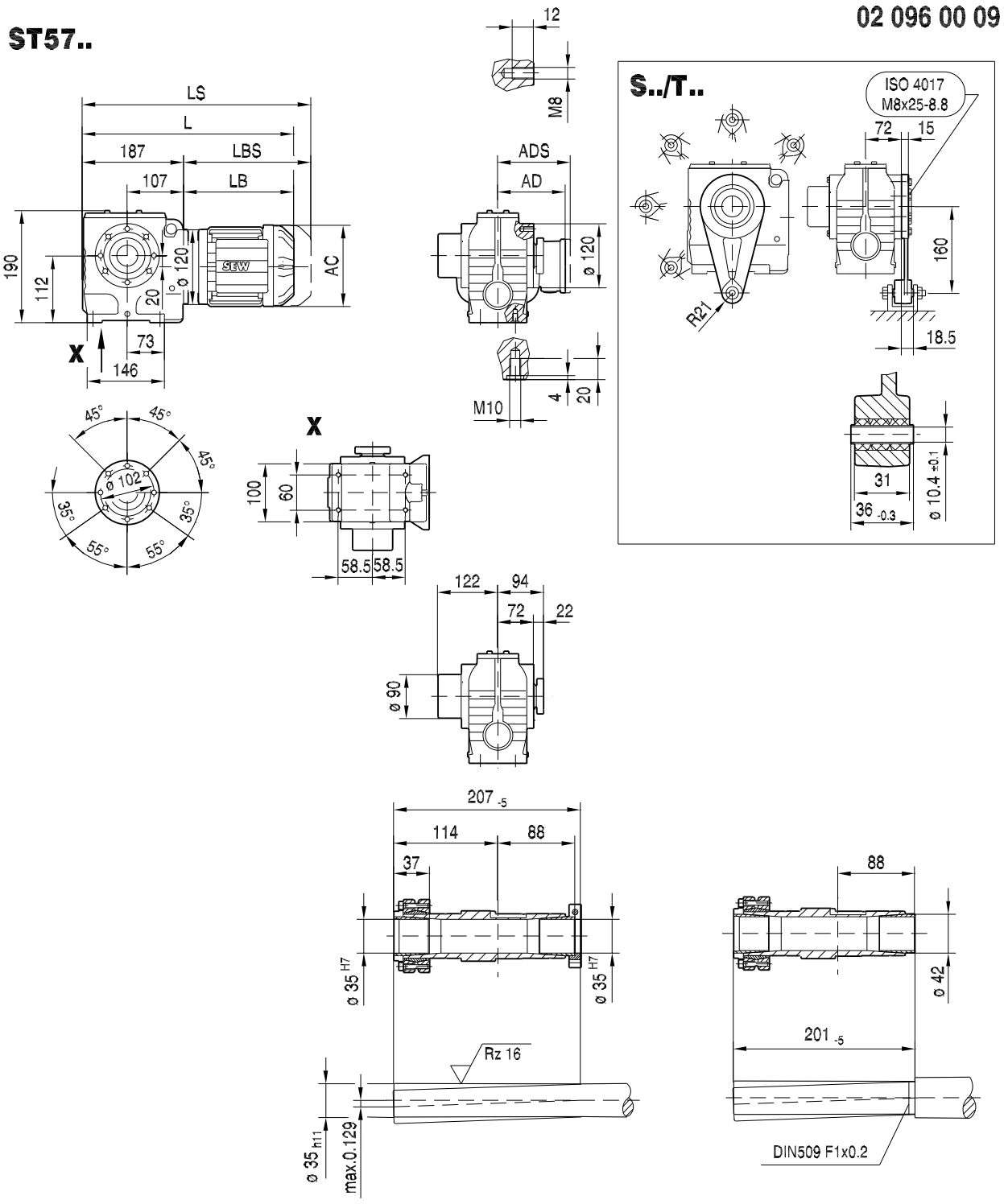




(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	378	390	415	424	455	459	479	509	539
LS	433	457	482	505	536	552	572	602	632
LB	191	203	228	237	268	272	292	322	352
LBS	246	270	295	318	349	365	385	415	445

ST57..

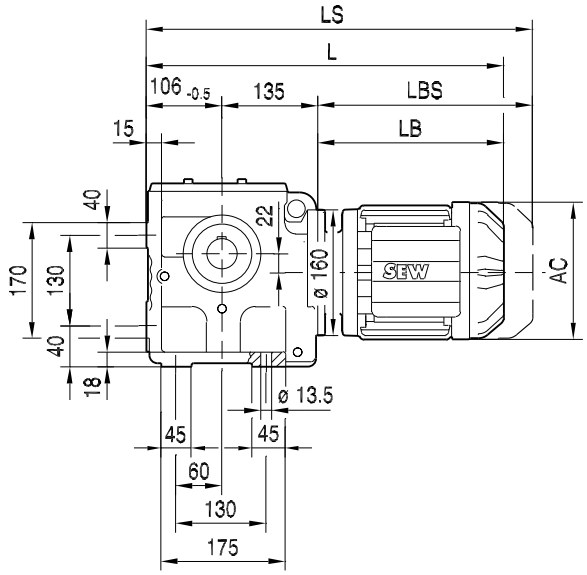
02 096 00 09

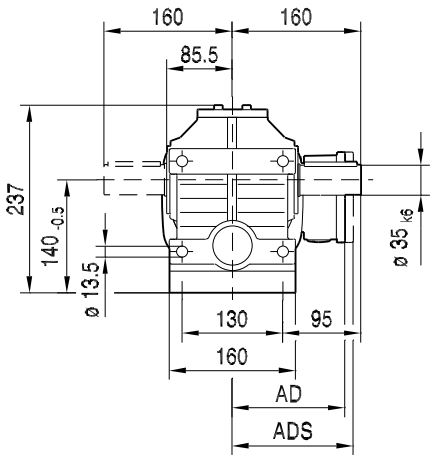


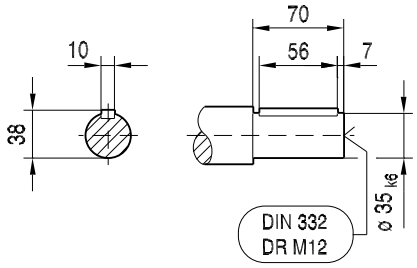
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	378	390	415	424	455	459	479	509	539
LS	433	457	482	505	536	552	572	602	632
LB	191	203	228	237	268	272	292	322	352
LBS	246	270	295	318	349	365	385	415	445

02 097 00 09

S67..



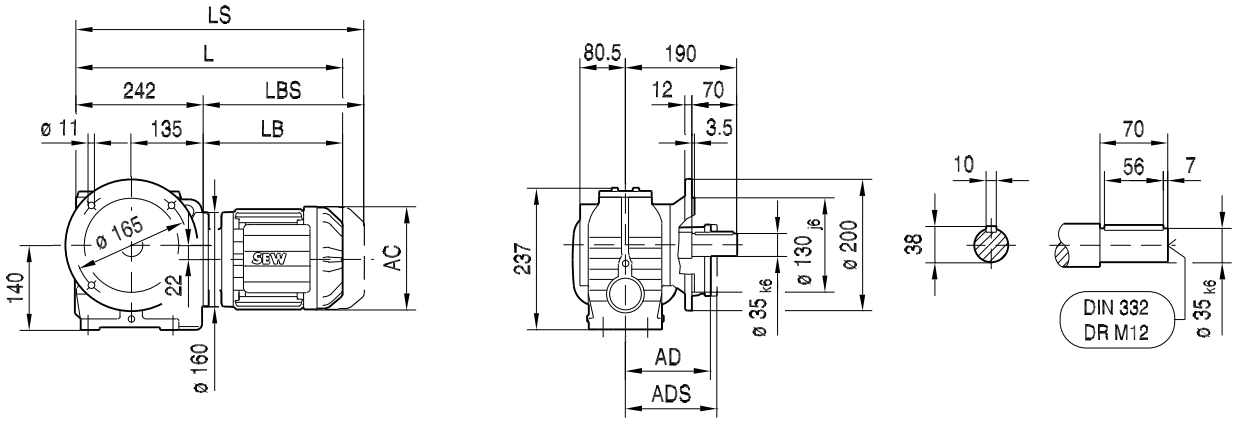




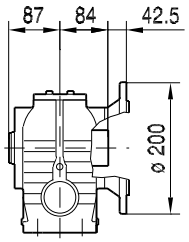
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC
AC	132	139	139	156	156	179	179	197	197	221	221
AD	105	129	129	139	139	150	150	158	158	172	172
ADS	105	129	129	139	139	150	150	158	158	172	172
L	426	437	462	471	502	504	524	554	584	631	681
LS	481	505	530	552	583	597	617	647	677	743	793
LB	185	196	221	230	261	263	283	313	343	390	440
LBS	240	264	289	311	342	356	376	406	436	502	552

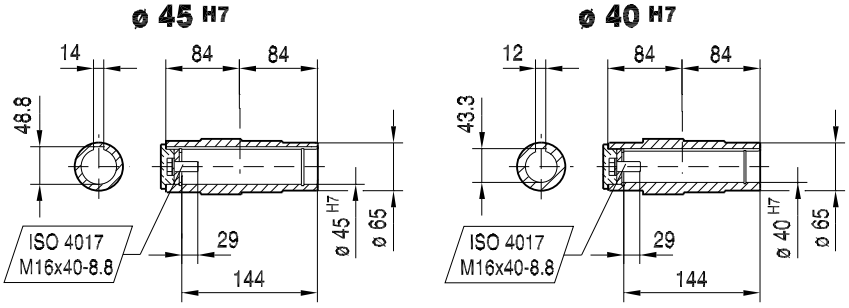
02 098 00 09

SF67..

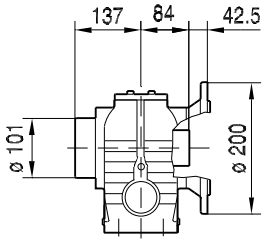


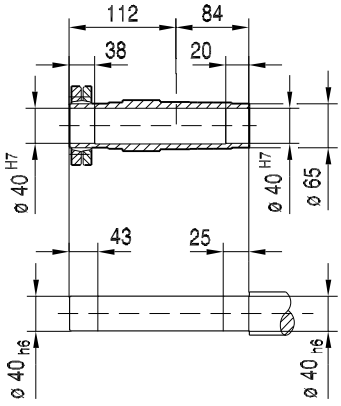
SAF67..





SHF67..

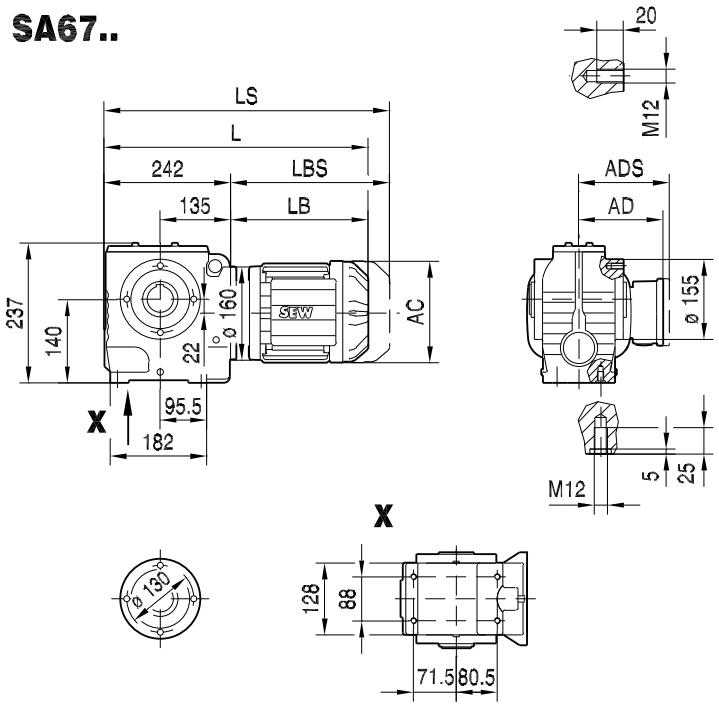




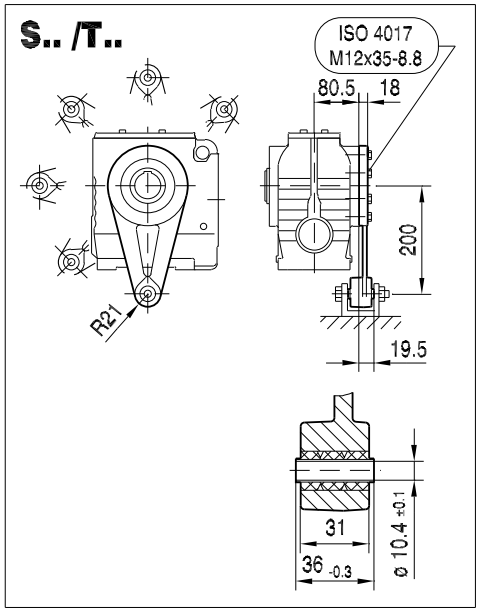
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC
AC	132	139	139	156	156	179	179	197	197	221	221
AD	105	129	129	139	139	150	150	158	158	172	172
ADS	105	129	129	139	139	150	150	158	158	172	172
L	427	438	463	472	503	505	525	555	585	632	682
LS	482	506	531	553	584	598	618	648	678	744	794
LB	185	196	221	230	261	263	283	313	343	390	440
LBS	240	264	289	311	342	356	376	406	436	502	552

02 099 00 09

SA67..

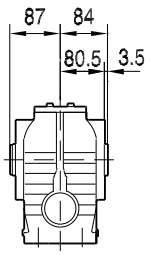


S.. /T..

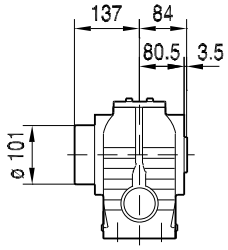


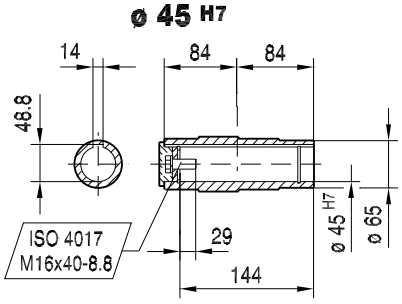
10

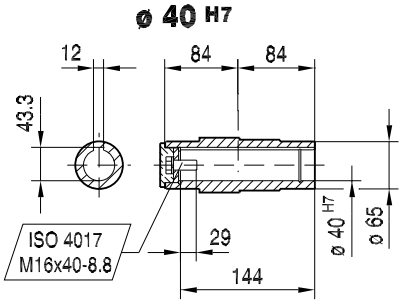
SA67..

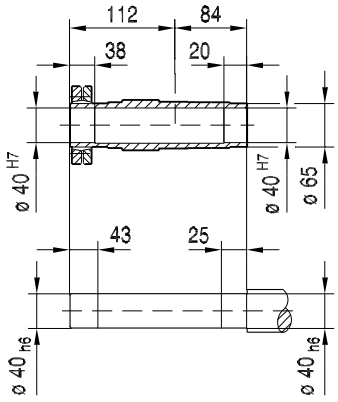


SH67..





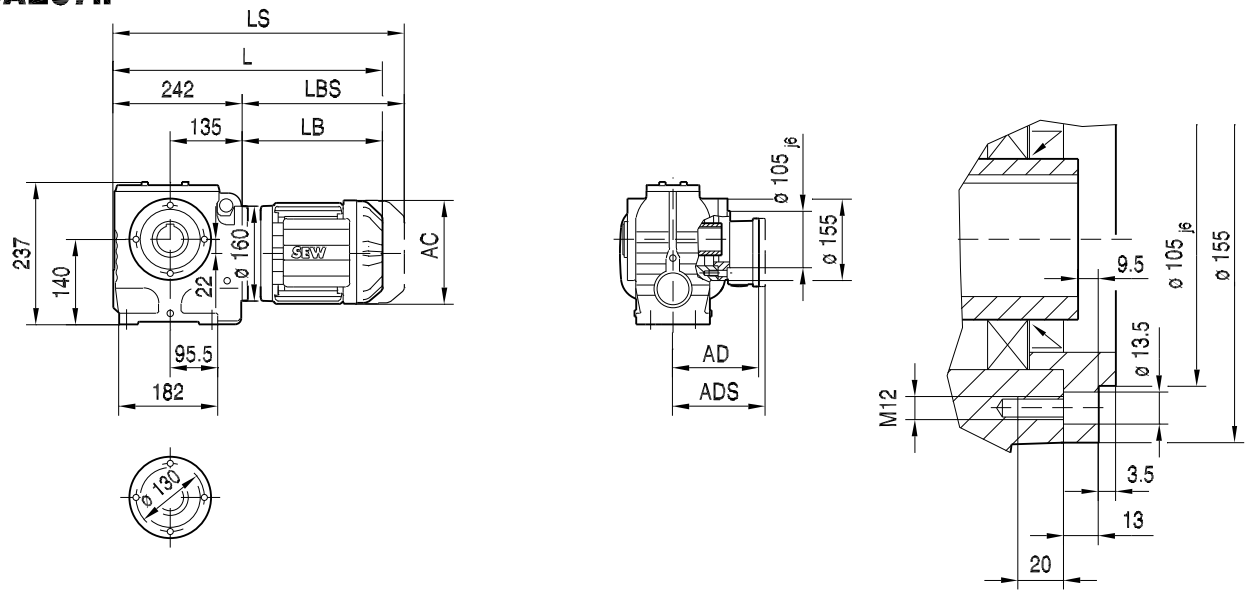




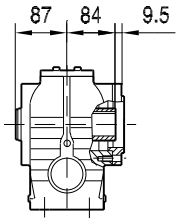
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC
AC	132	139	139	156	156	179	179	197	197	221	221
AD	105	129	129	139	139	150	150	158	158	172	172
ADS	105	129	129	139	139	150	150	158	158	172	172
L	427	438	463	472	503	505	525	555	585	632	682
LS	482	506	531	553	584	598	618	648	678	744	794
LB	185	196	221	230	261	263	283	313	343	390	440
LBS	240	264	289	311	342	356	376	406	436	502	552

02 100 00 09

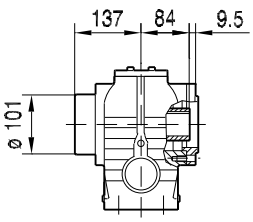
SAZ67..

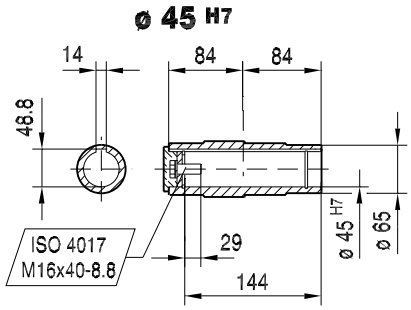


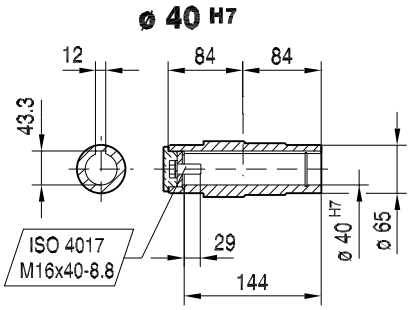
SAZ67..

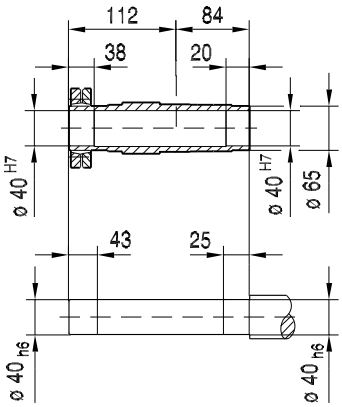


SHZ67..





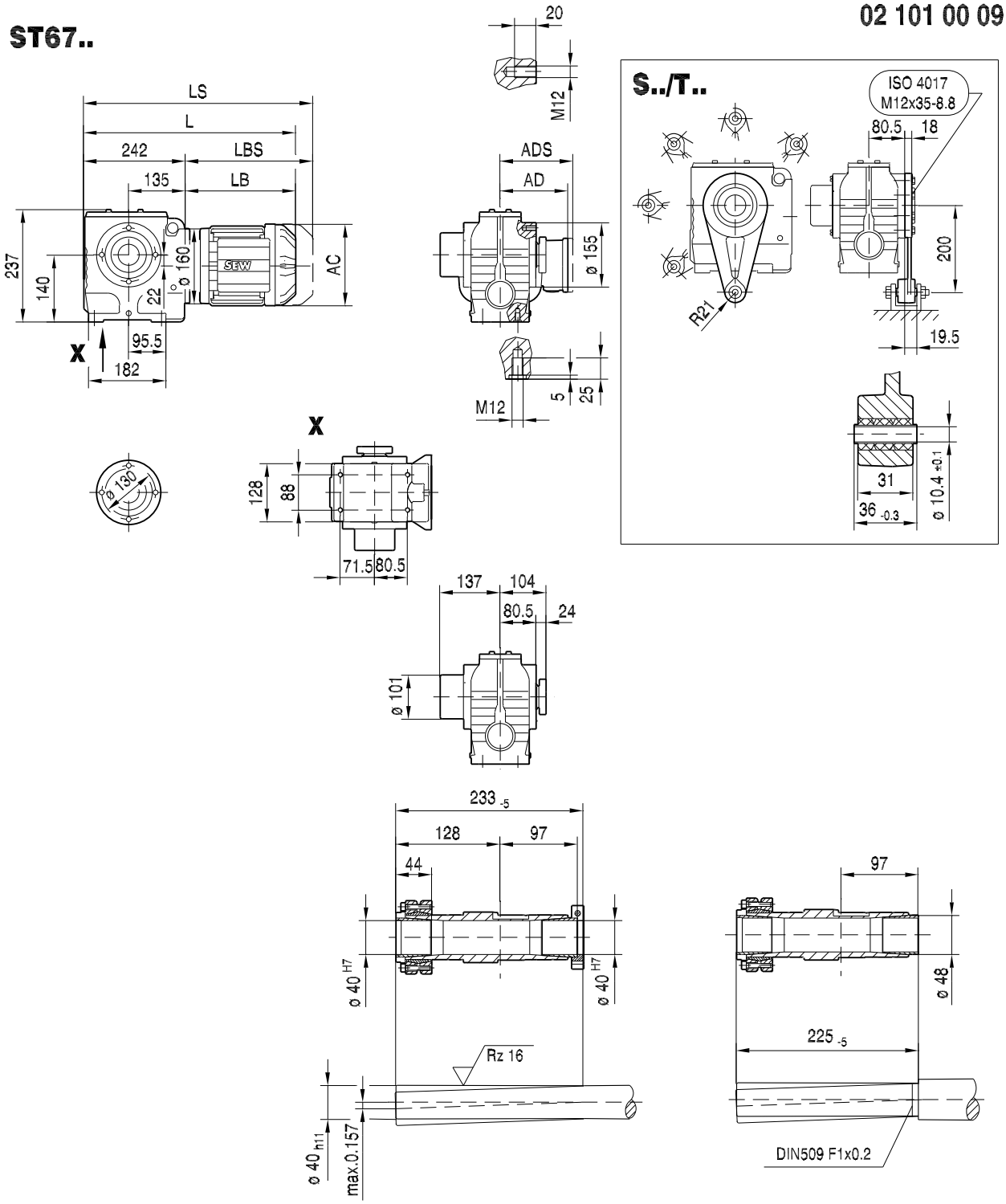




(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC
AC	132	139	139	156	156	179	179	197	197	221	221
AD	105	129	129	139	139	150	150	158	158	172	172
ADS	105	129	129	139	139	150	150	158	158	172	172
L	427	438	463	472	503	505	525	555	585	632	682
LS	482	506	531	553	584	598	618	648	678	744	794
LB	185	196	221	230	261	263	283	313	343	390	440
LBS	240	264	289	311	342	356	376	406	436	502	552

02 101 00 09

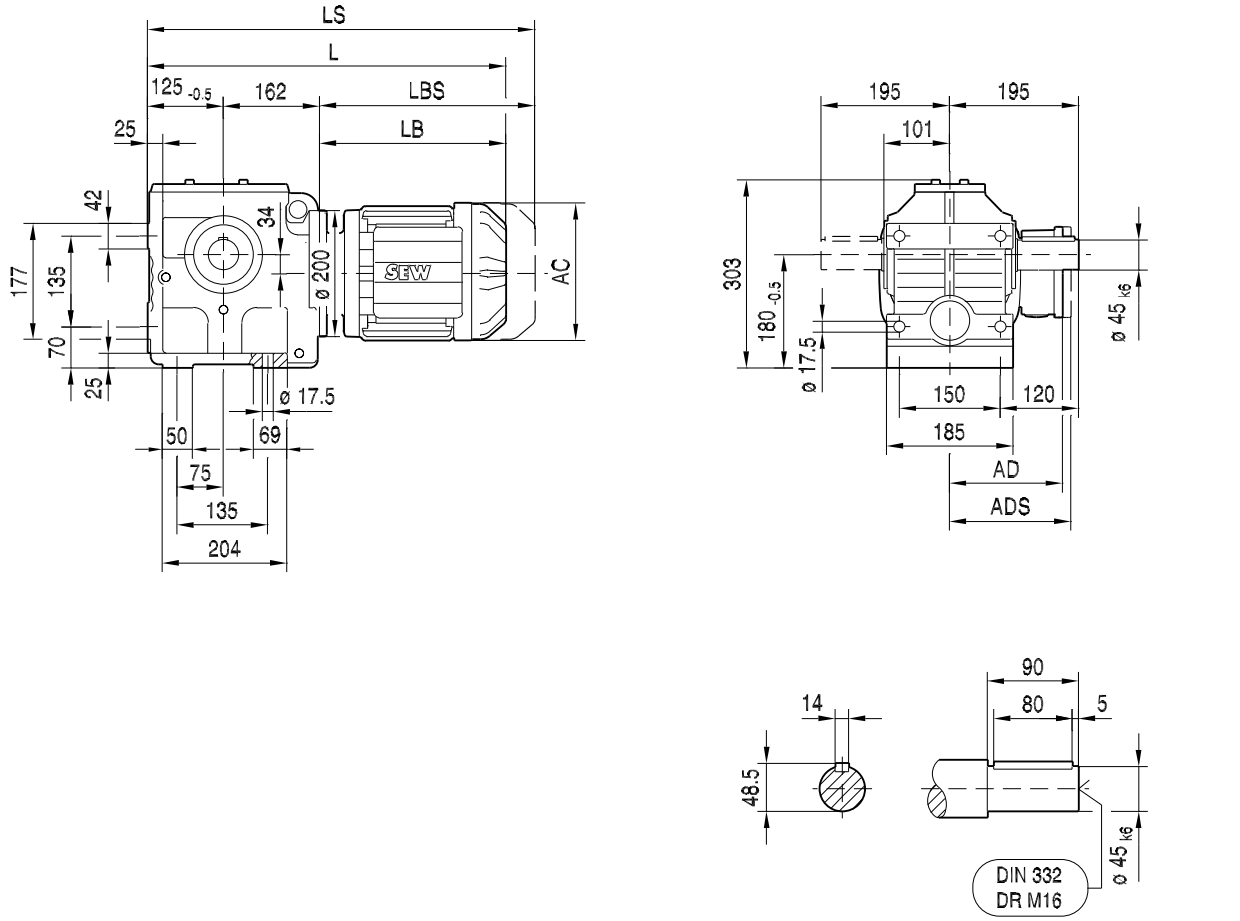
ST67..



(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC
AC	132	139	139	156	156	179	179	197	197	221	221
AD	105	129	129	139	139	150	150	158	158	172	172
ADS	105	129	129	139	139	150	150	158	158	172	172
L	427	438	463	472	503	505	525	555	585	632	682
LS	482	506	531	553	584	598	618	648	678	744	794
LB	185	196	221	230	261	263	283	313	343	390	440
LBS	240	264	289	311	342	356	376	406	436	502	552

02 102 00 09

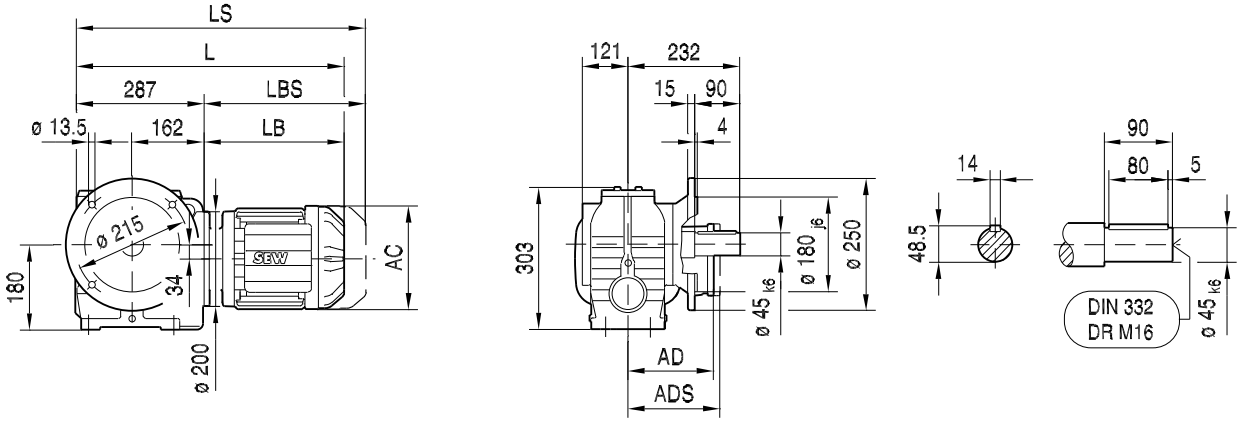
S77..



(→ 127)	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..
AC	139	156	156	179	179	197	197	221	221	270
AD	129	139	139	150	150	158	158	172	172	228
ADS	129	139	139	150	150	158	158	172	172	228
L	501	510	541	543	563	593	623	666	716	757
LS	569	591	622	636	656	686	716	778	828	894
LB	214	223	254	256	276	306	336	379	429	470
LBS	282	304	335	349	369	399	429	491	541	607

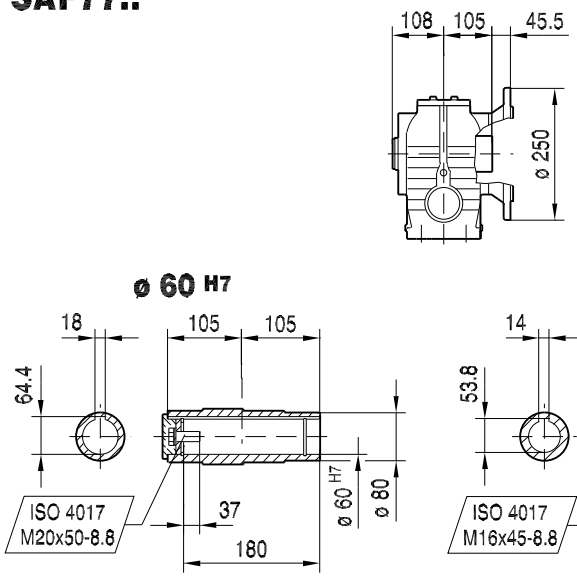
02 103 00 09

SF77..

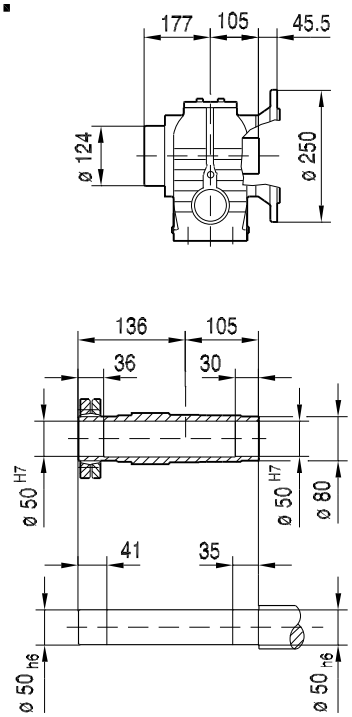


10

SAF77..



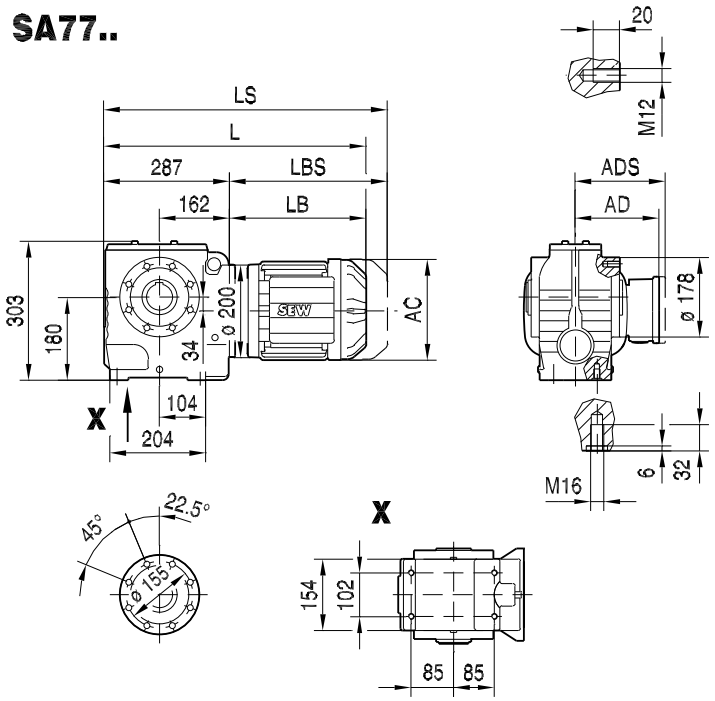
SHF77..



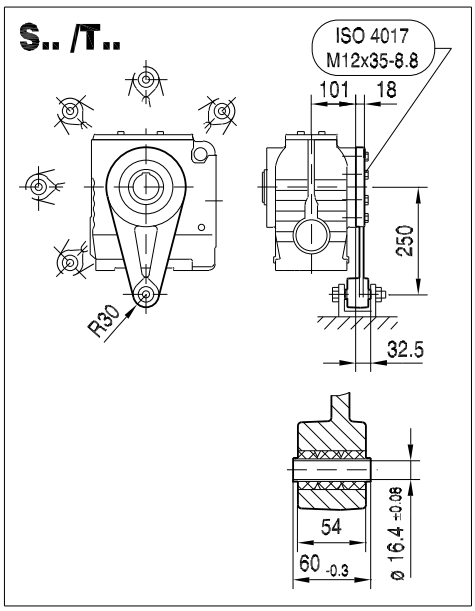
(→ 127)	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..
AC	139	156	156	179	179	197	197	221	221	270
AD	129	139	139	150	150	158	158	172	172	228
ADS	129	139	139	150	150	158	158	172	172	228
L	501	510	541	543	563	593	623	666	716	757
LS	569	591	622	636	656	686	716	778	828	894
LB	214	223	254	256	276	306	336	379	429	470
LBS	282	304	335	349	369	399	429	491	541	607

02 104 00 09

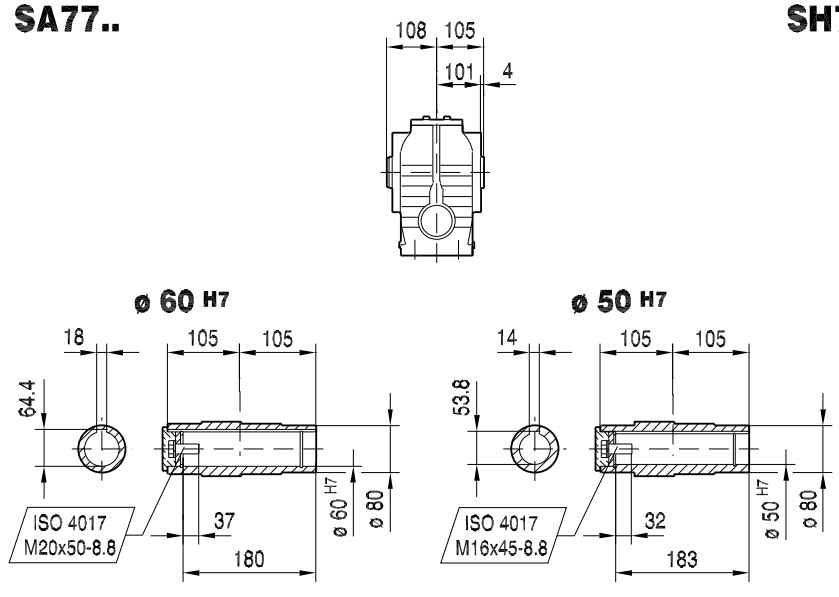
SA77..



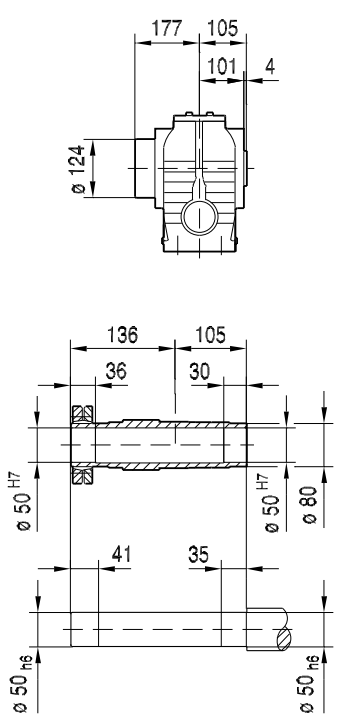
S.. /T..



SA77..



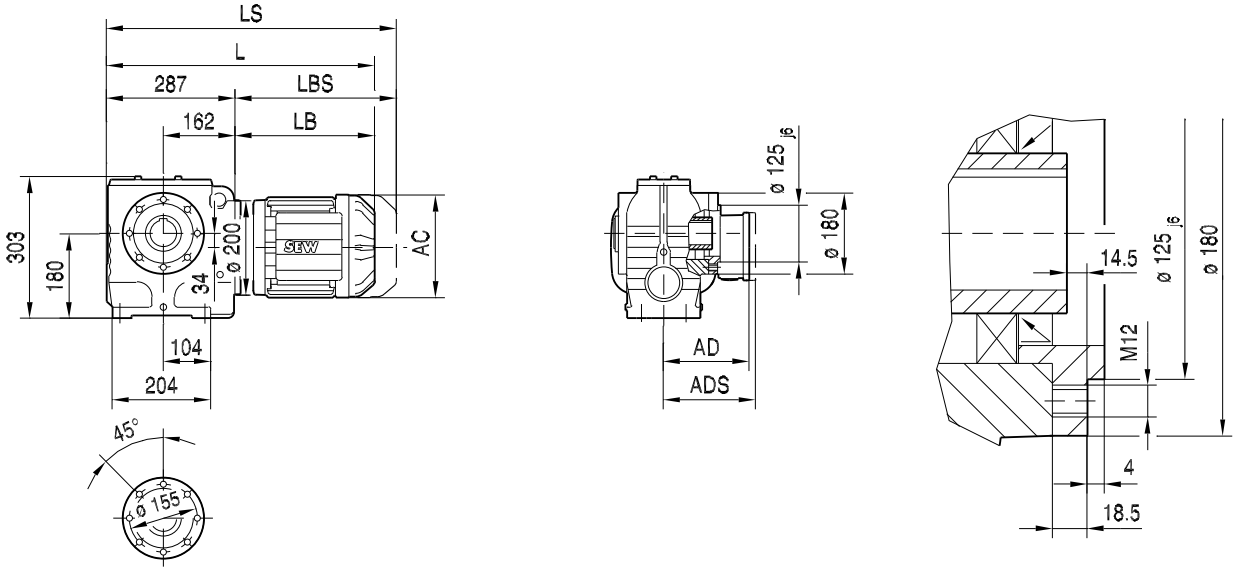
SH77..



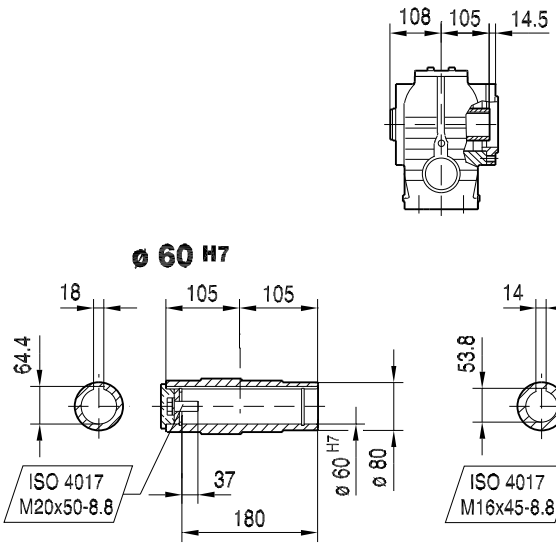
(→ 127)	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..
AC	139	156	156	179	179	197	197	221	221	270
AD	129	139	139	150	150	158	158	172	172	228
ADS	129	139	139	150	150	158	158	172	172	228
L	501	510	541	543	563	593	623	666	716	757
LS	569	591	622	636	656	686	716	778	828	894
LB	214	223	254	256	276	306	336	379	429	470
LBS	282	304	335	349	369	399	429	491	541	607

02 105 00 09

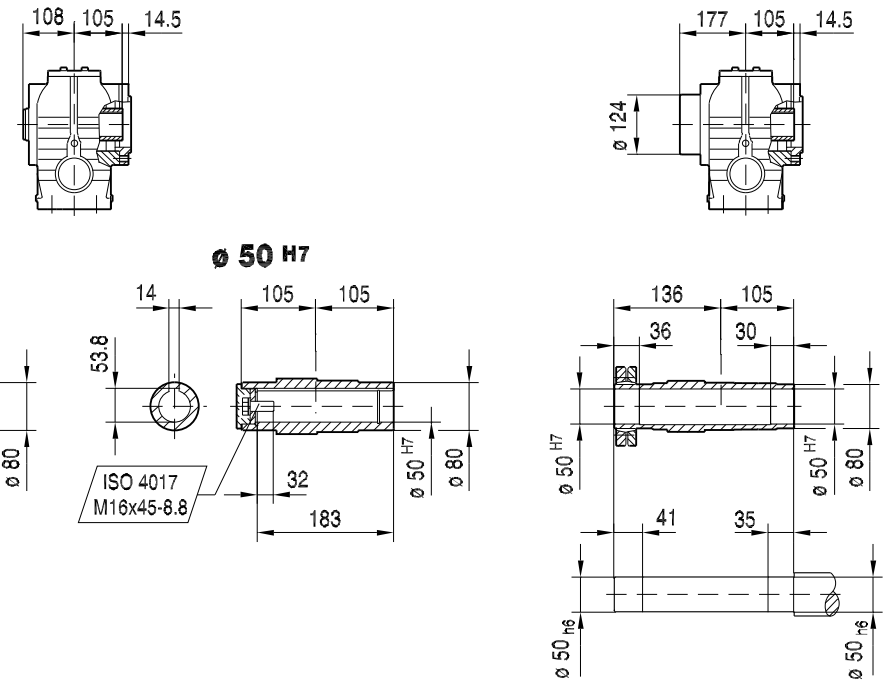
SAZ77..



SAZ77..

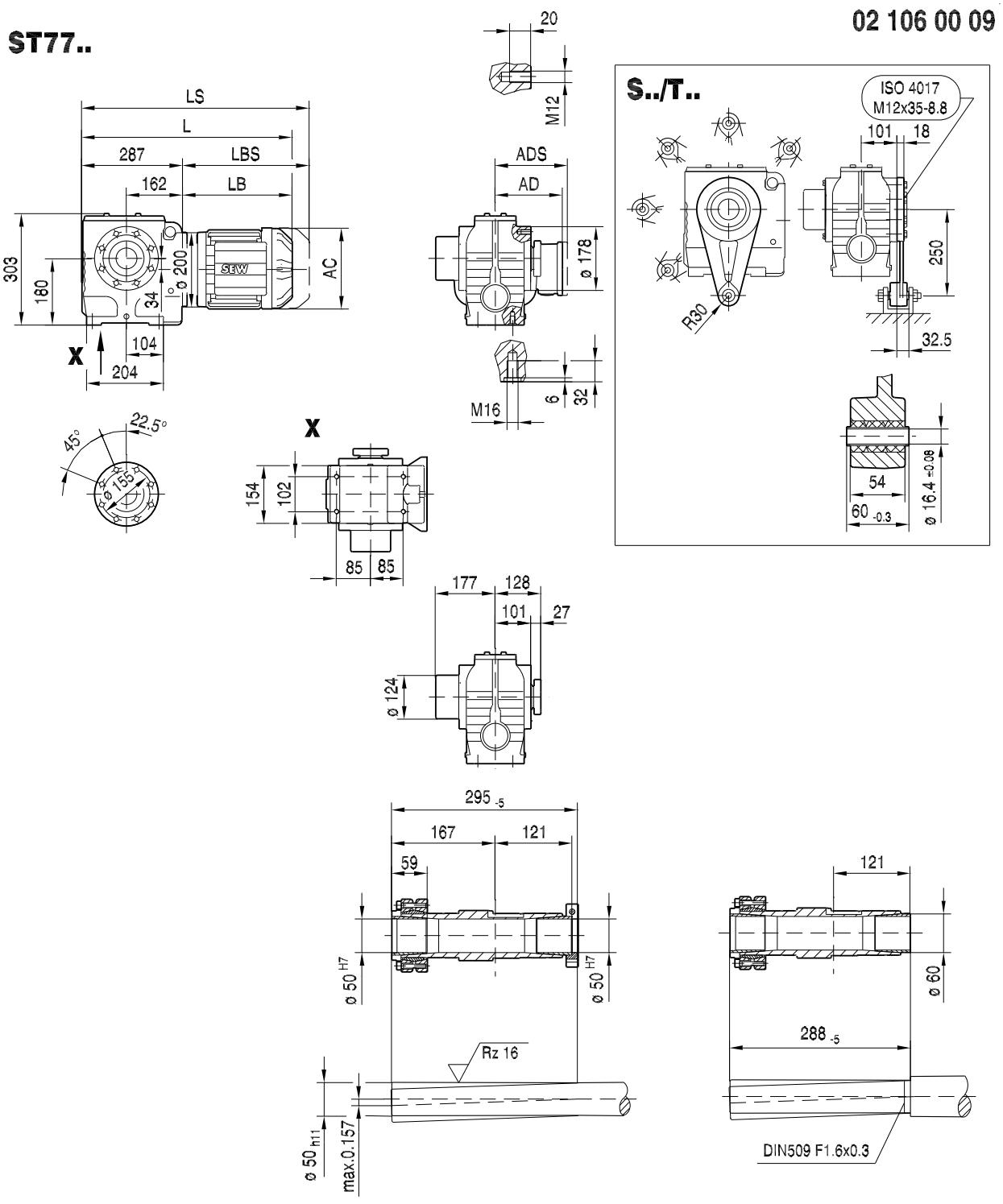


SHZ77..



(→ 127)	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..
AC	139	156	156	179	179	197	197	221	221	270
AD	129	139	139	150	150	158	158	172	172	228
ADS	129	139	139	150	150	158	158	172	172	228
L	501	510	541	543	563	593	623	666	716	757
LS	569	591	622	636	656	686	716	778	828	894
LB	214	223	254	256	276	306	336	379	429	470
LBS	282	304	335	349	369	399	429	491	541	607

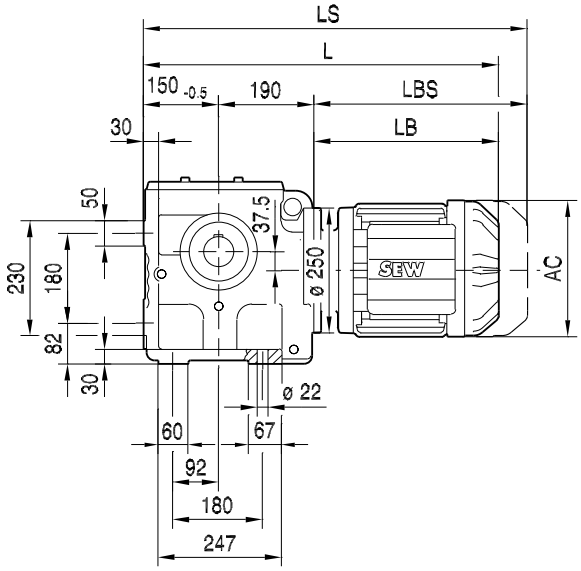
02 106 00 09

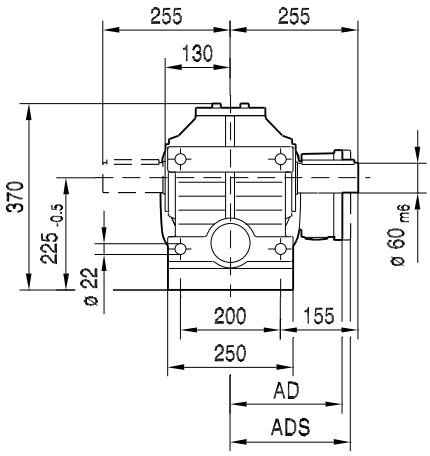


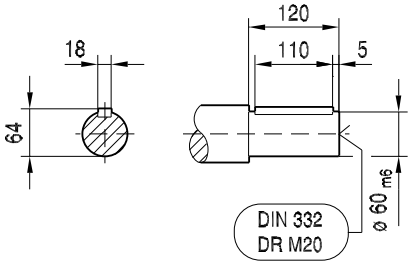
(→ 127)	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..
AC	139	156	156	179	179	197	197	221	221	270
AD	129	139	139	150	150	158	158	172	172	228
ADS	129	139	139	150	150	158	158	172	172	228
L	501	510	541	543	563	593	623	666	716	757
LS	569	591	622	636	656	686	716	778	828	894
LB	214	223	254	256	276	306	336	379	429	470
LBS	282	304	335	349	369	399	429	491	541	607

02 107 00 09

S87..





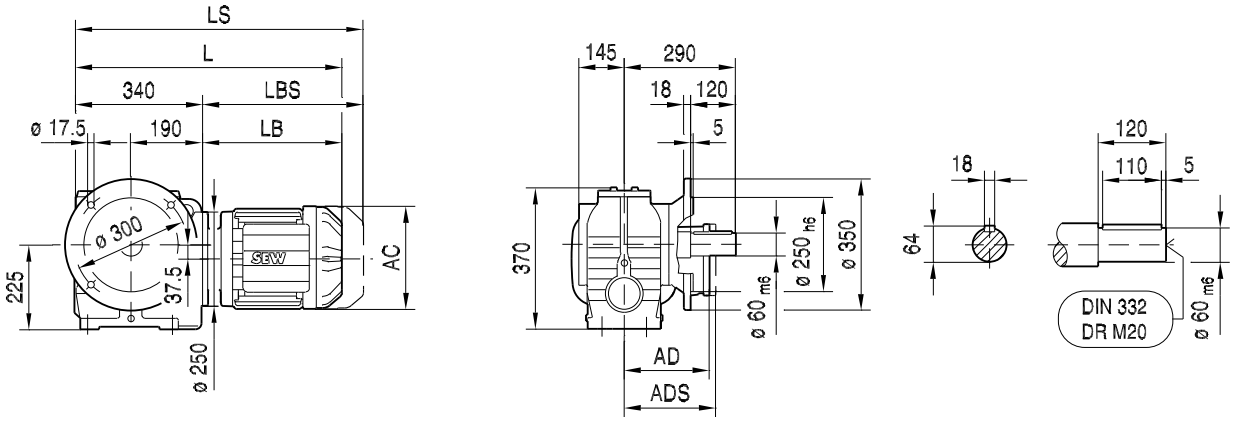


10

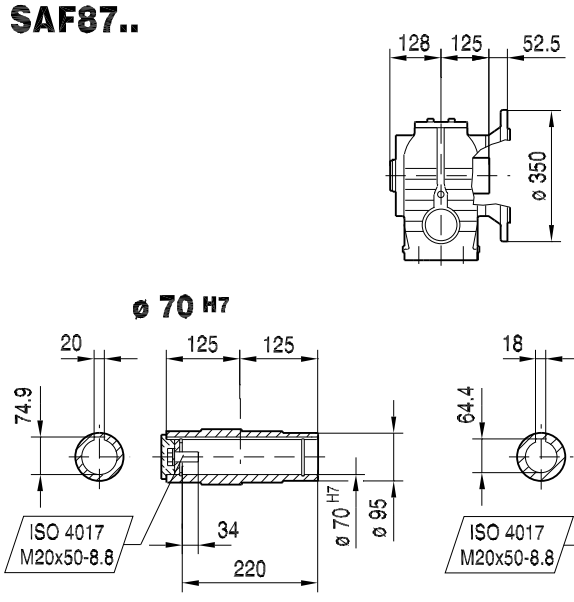
(→ 127)	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M
AC	156	156	179	179	197	197	221	221	270	316
AD	139	139	150	150	158	158	172	172	228	253
ADS	139	139	150	150	158	158	172	172	228	253
L	558	589	591	611	641	671	714	764	805	874
LS	639	670	684	704	734	764	826	876	942	1063
LB	218	249	251	271	301	331	374	424	465	534
LBS	299	330	344	364	394	424	486	536	602	723

02 108 00 09

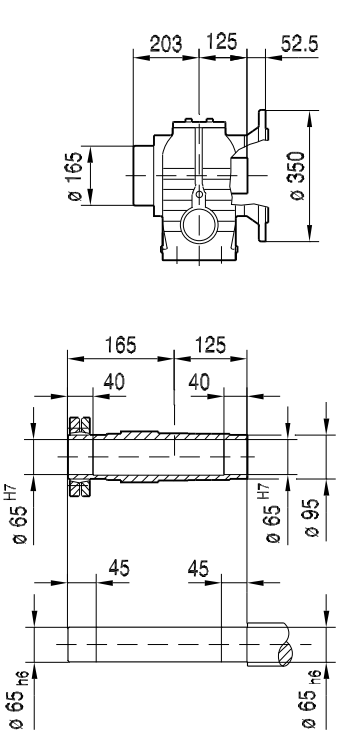
SF87..



SAF87..



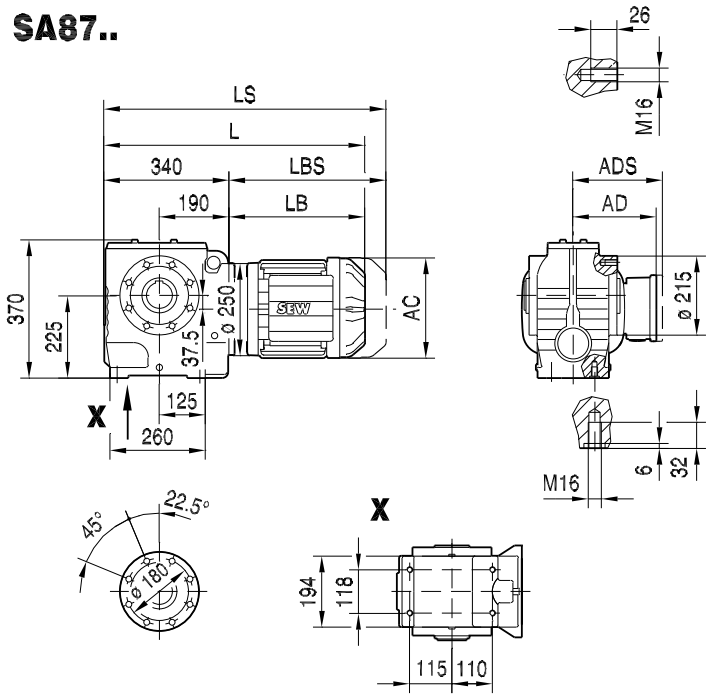
SHF87..



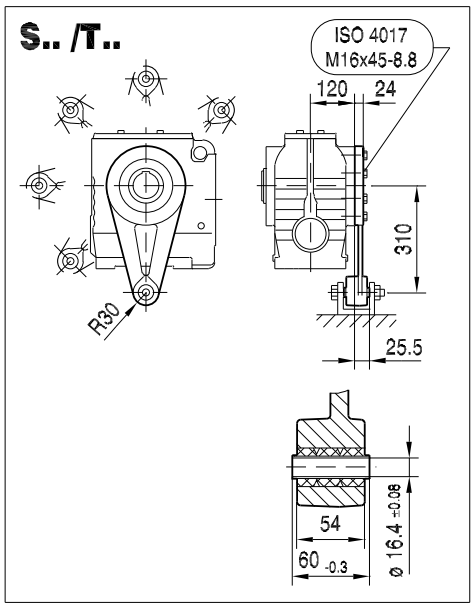
(→ 127)	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M
AC	156	156	179	179	197	197	221	221	270	316
AD	139	139	150	150	158	158	172	172	228	253
ADS	139	139	150	150	158	158	172	172	228	253
L	558	589	591	611	641	671	714	764	805	874
LS	639	670	684	704	734	764	826	876	942	1063
LB	218	249	251	271	301	331	374	424	465	534
LBS	299	330	344	364	394	424	486	536	602	723

02 109 00 09

SA87..

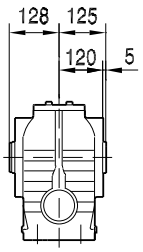


S.. /T..

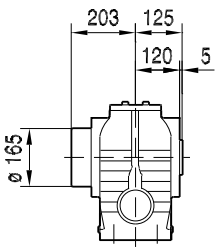


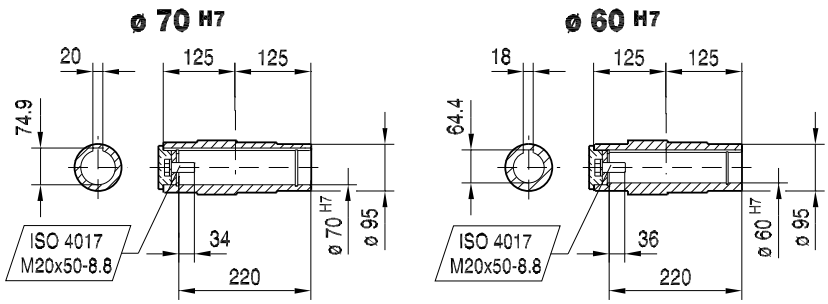
10

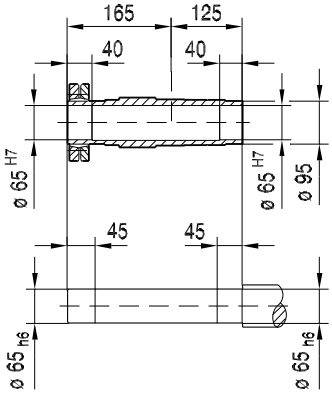
SA87..



SH87..



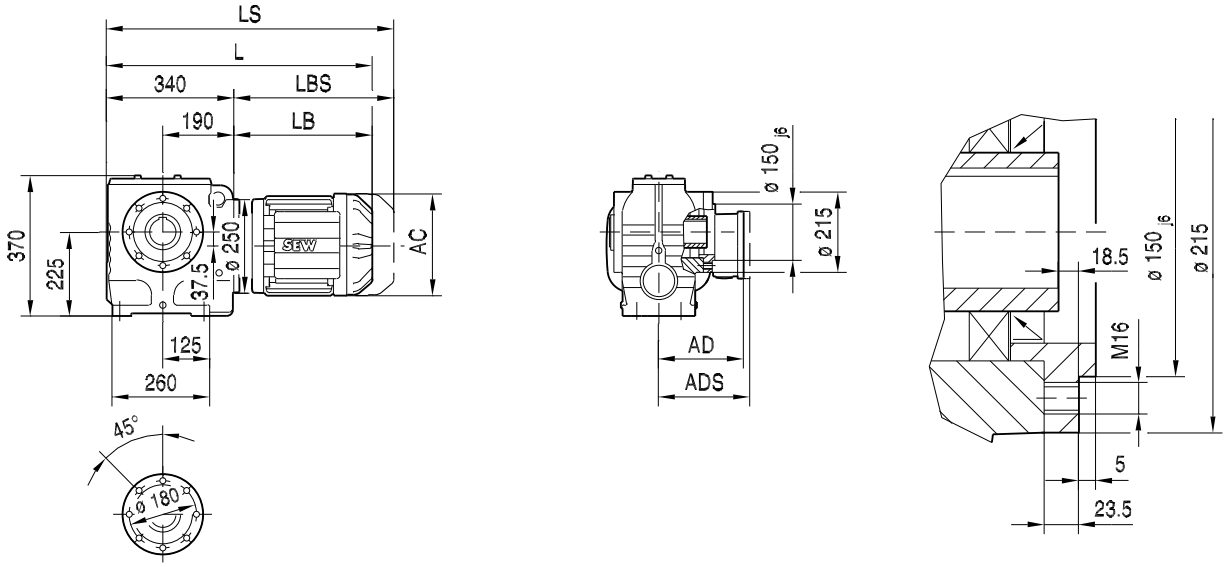




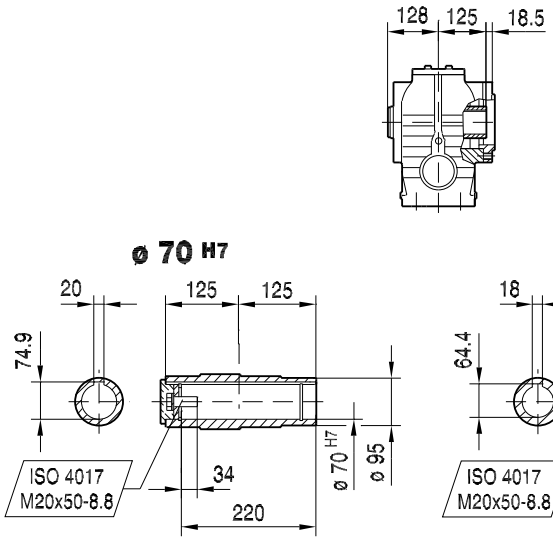
(→ 127)	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M
AC	156	156	179	179	197	197	221	221	270	316
AD	139	139	150	150	158	158	172	172	228	253
ADS	139	139	150	150	158	158	172	172	228	253
L	558	589	591	611	641	671	714	764	805	874
LS	639	670	684	704	734	764	826	876	942	1063
LB	218	249	251	271	301	331	374	424	465	534
LBS	299	330	344	364	394	424	486	536	602	723

02 110 00 09

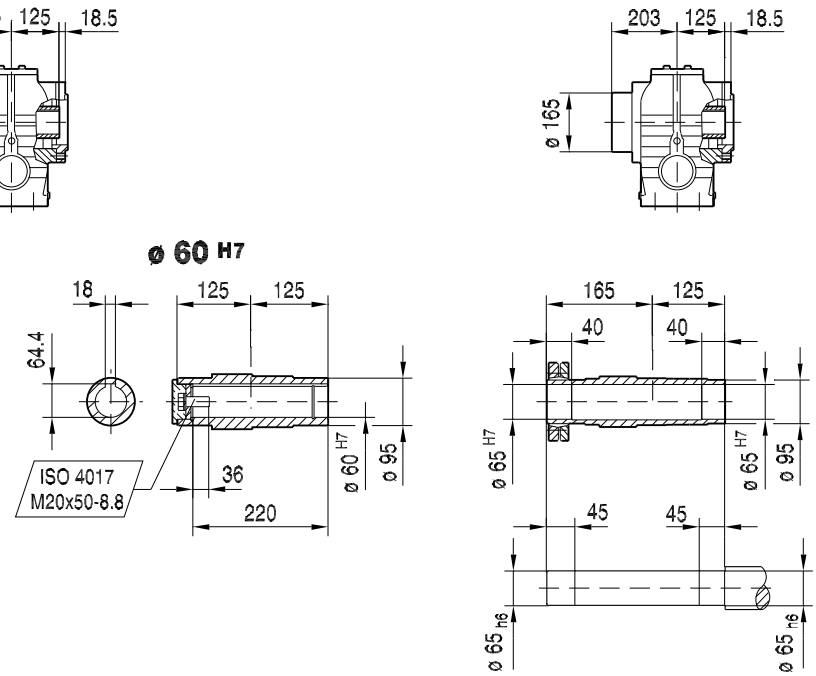
SAZ87..



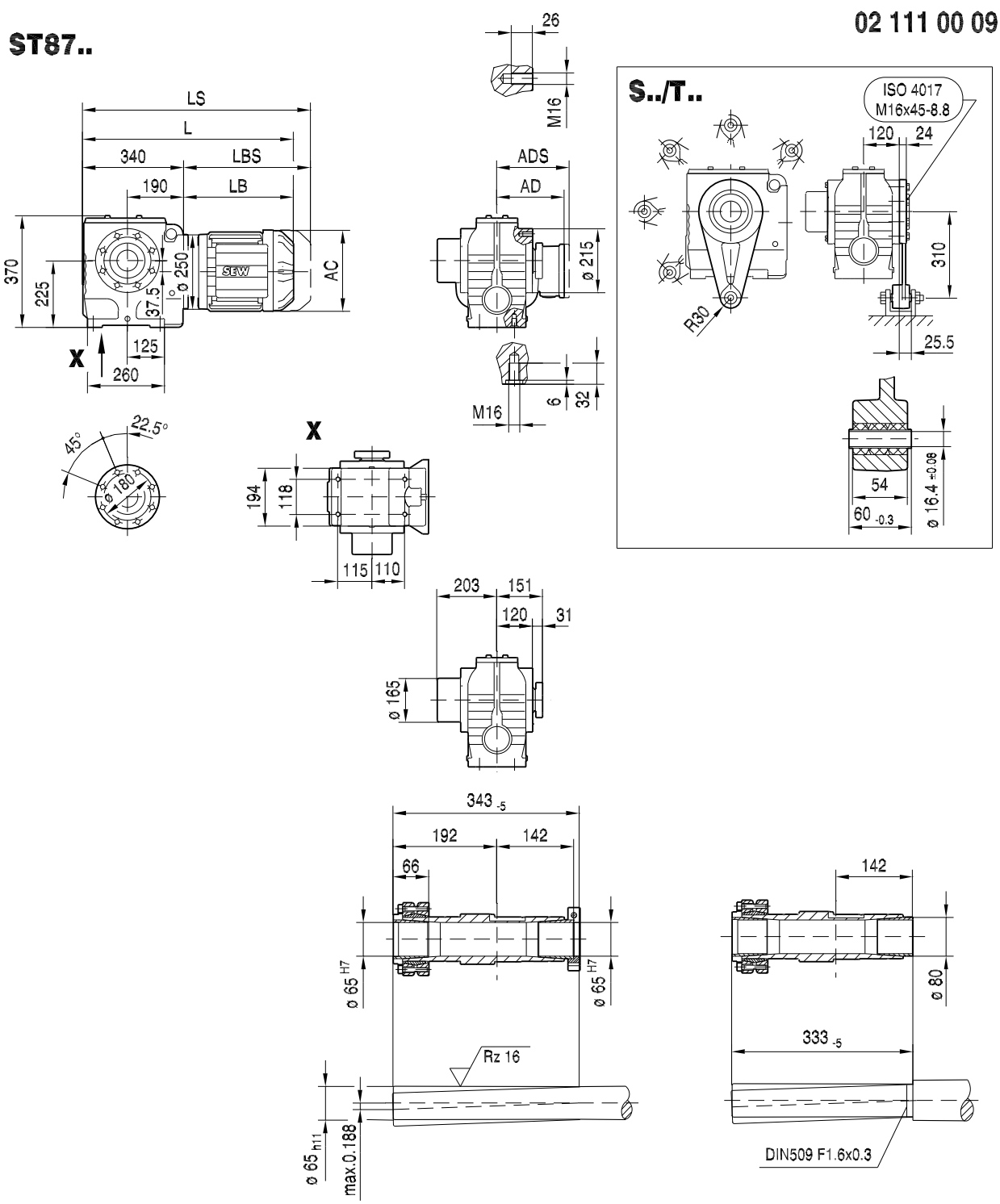
SAZ87..



SHZ87..



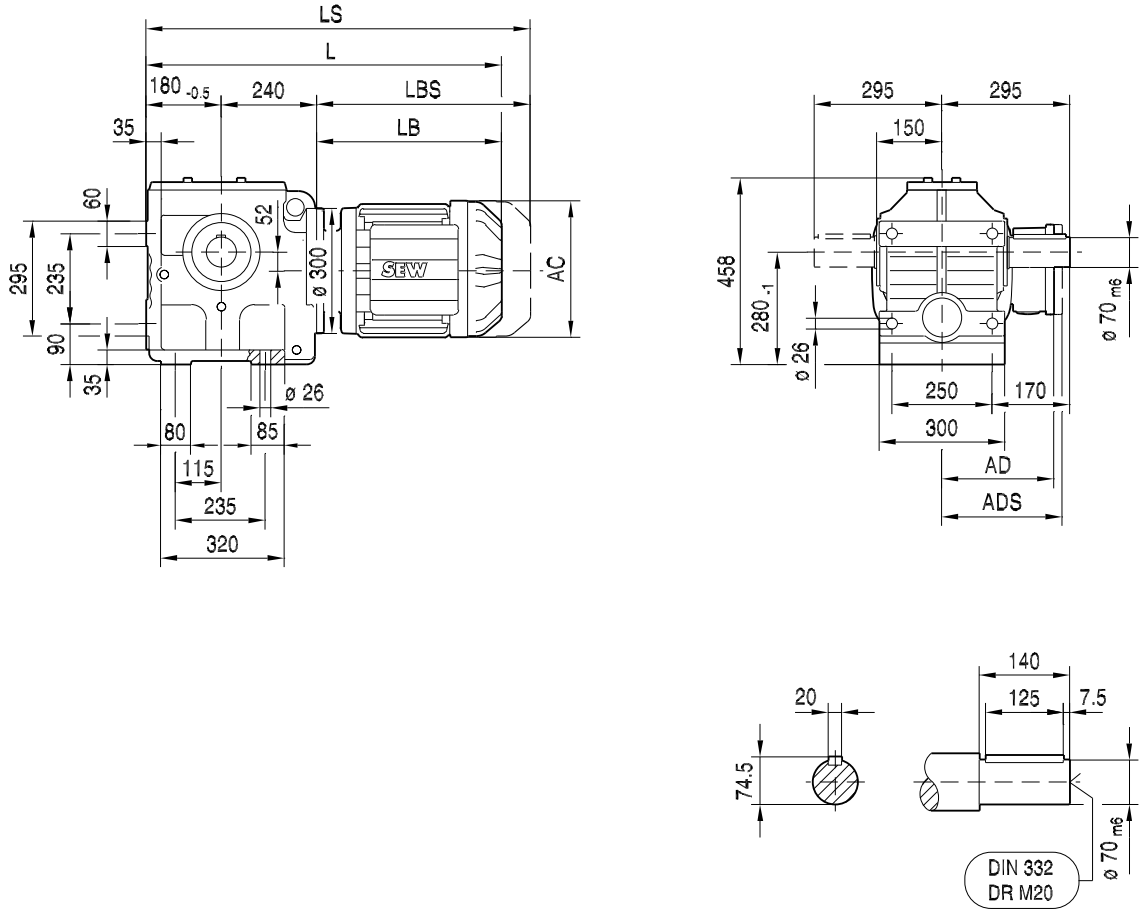
(→ 127)	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M
AC	156	156	179	179	197	197	221	221	270	316
AD	139	139	150	150	158	158	172	172	228	253
ADS	139	139	150	150	158	158	172	172	228	253
L	558	589	591	611	641	671	714	764	805	874
LS	639	670	684	704	734	764	826	876	942	1063
LB	218	249	251	271	301	331	374	424	465	534
LBS	299	330	344	364	394	424	486	536	602	723



(→ 127)	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M
AC	156	156	179	179	197	197	221	221	270	316
AD	139	139	150	150	158	158	172	172	228	253
ADS	139	139	150	150	158	158	172	172	228	253
L	558	589	591	611	641	671	714	764	805	874
LS	639	670	684	704	734	764	826	876	942	1063
LB	218	249	251	271	301	331	374	424	465	534
LBS	299	330	344	364	394	424	486	536	602	723

02 112 00 09

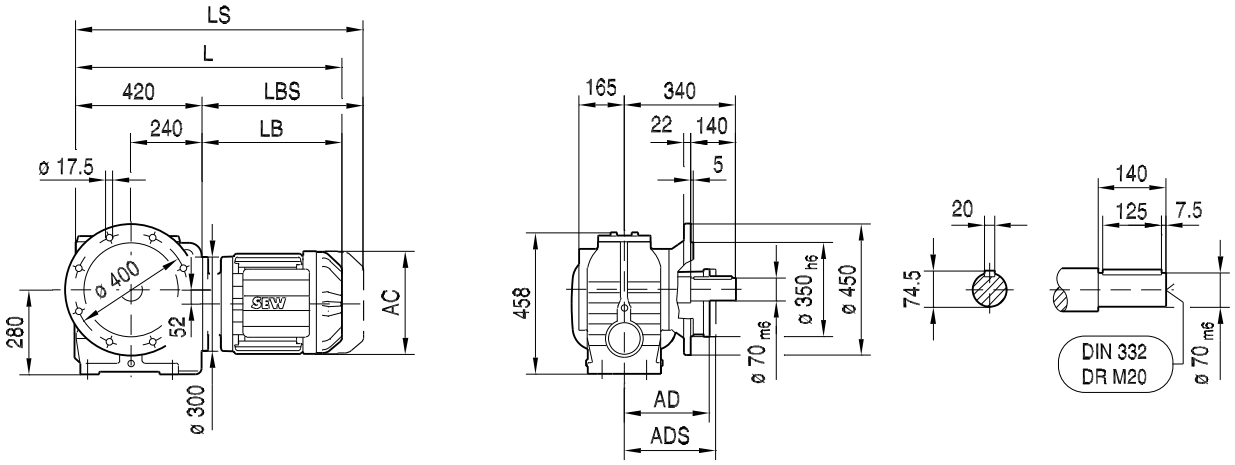
S97..



(→ 127)	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200
AC	179	179	197	197	221	221	270	316	316	394
AD	150	150	158	158	172	172	228	253	253	283
ADS	150	150	158	158	172	172	228	253	253	283
L	666	686	716	746	789	839	880	949	1009	1082
LS	759	779	809	839	901	951	1017	1138	1198	1287
LB	246	266	296	326	369	419	460	529	589	662
LBS	339	359	389	419	481	531	597	718	778	867

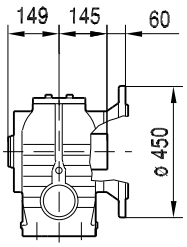
SF97..

02 113 00 09

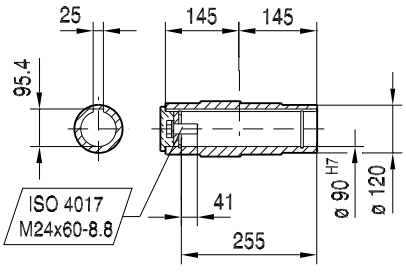


10

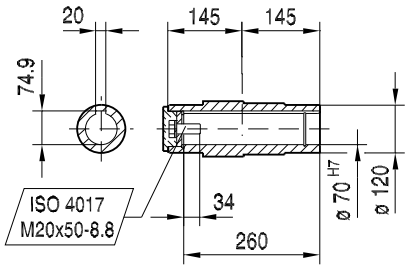
SAF97..



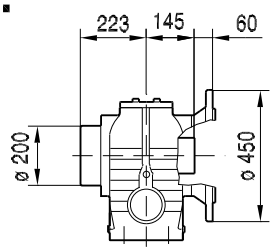
ø 90 H7

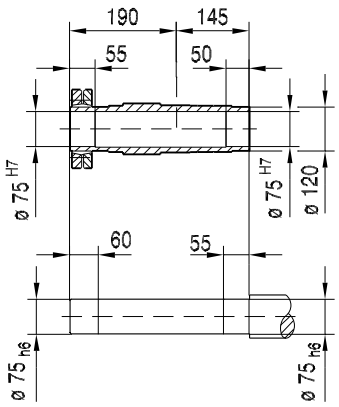


ø 70 H7



SHF97..

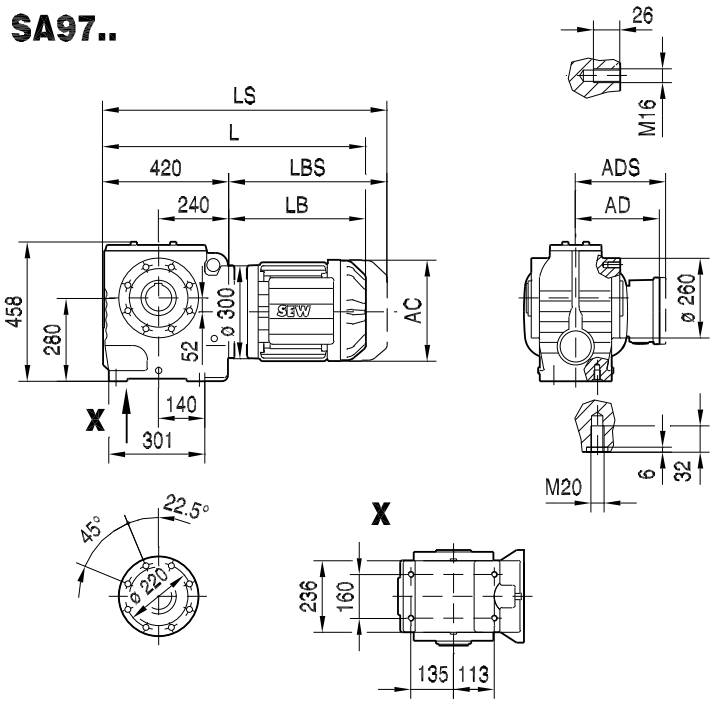




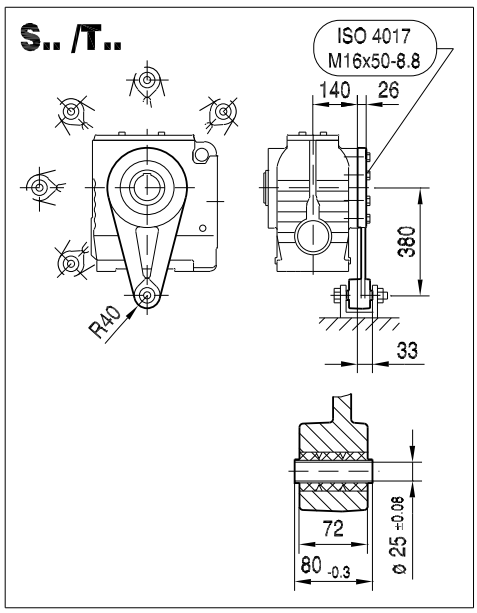
(→ 127)	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200
AC	179	179	197	197	221	221	270	316	316	394
AD	150	150	158	158	172	172	228	253	253	283
ADS	150	150	158	158	172	172	228	253	253	283
L	666	686	716	746	789	839	880	949	1009	1082
LS	759	779	809	839	901	951	1017	1138	1198	1287
LB	246	266	296	326	369	419	460	529	589	662
LBS	339	359	389	419	481	531	597	718	778	867

02 114 00 09

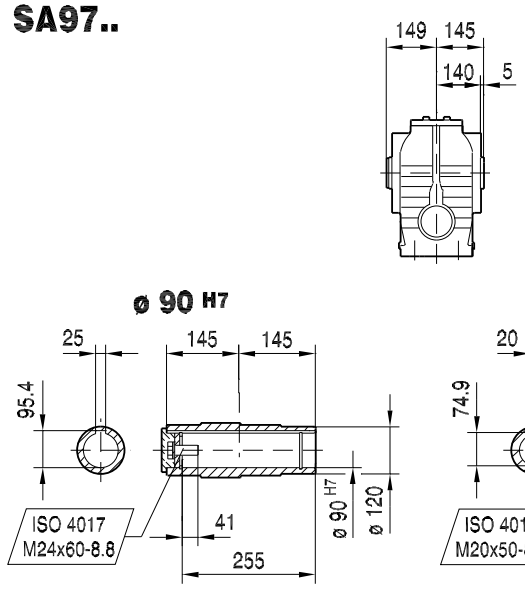
SA97..



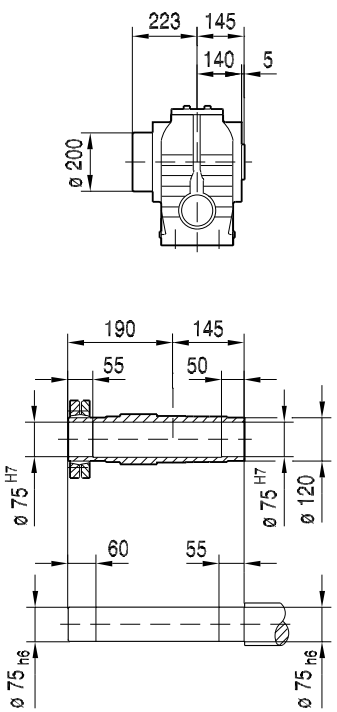
S.. /T..



SA97..



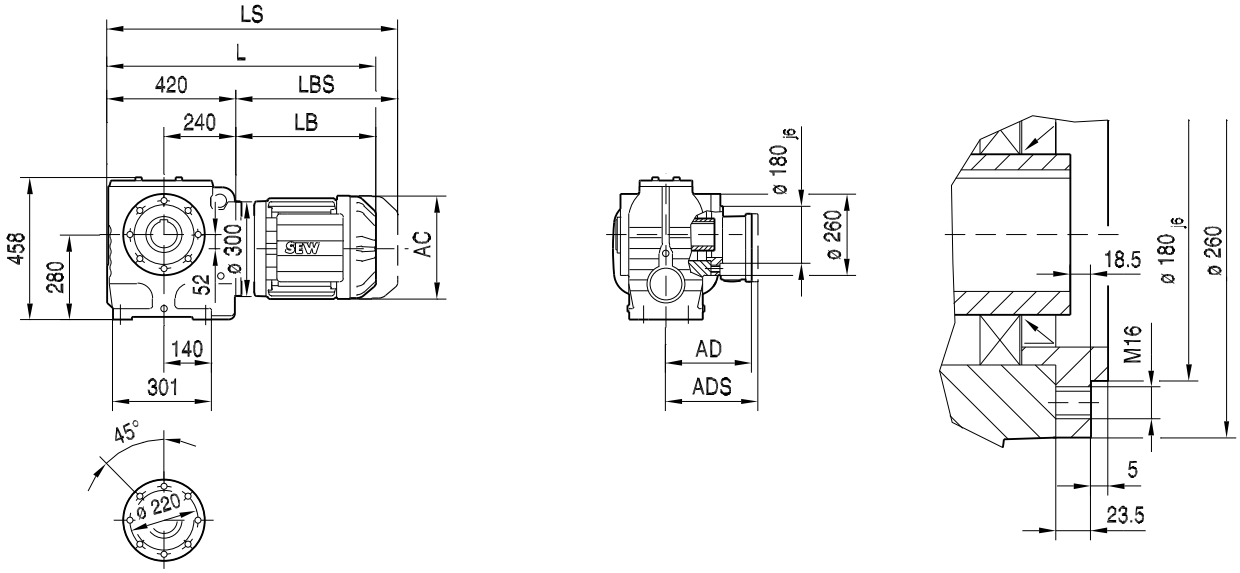
SH97..



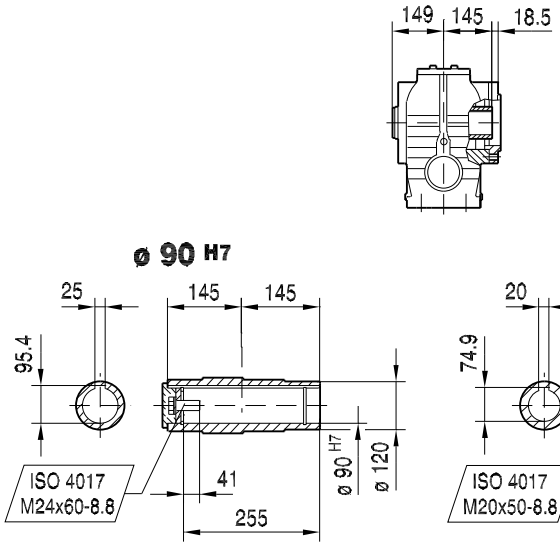
(→ 127)	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200
AC	179	179	197	197	221	221	270	316	316	394
AD	150	150	158	158	172	172	228	253	253	283
ADS	150	150	158	158	172	172	228	253	253	283
L	666	686	716	746	789	839	880	949	1009	1082
LS	759	779	809	839	901	951	1017	1138	1198	1287
LB	246	266	296	326	369	419	460	529	589	662
LBS	339	359	389	419	481	531	597	718	778	867

02 115 00 09

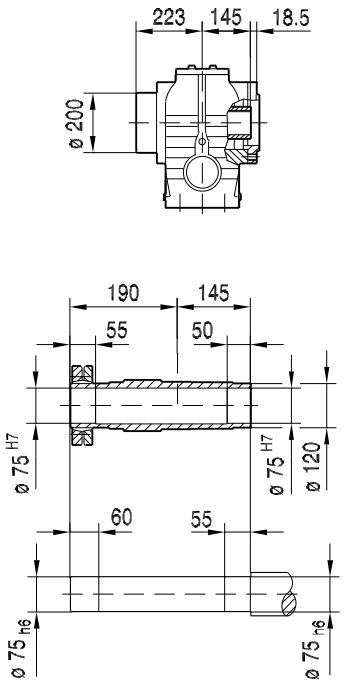
SAZ97..



SAZ97..



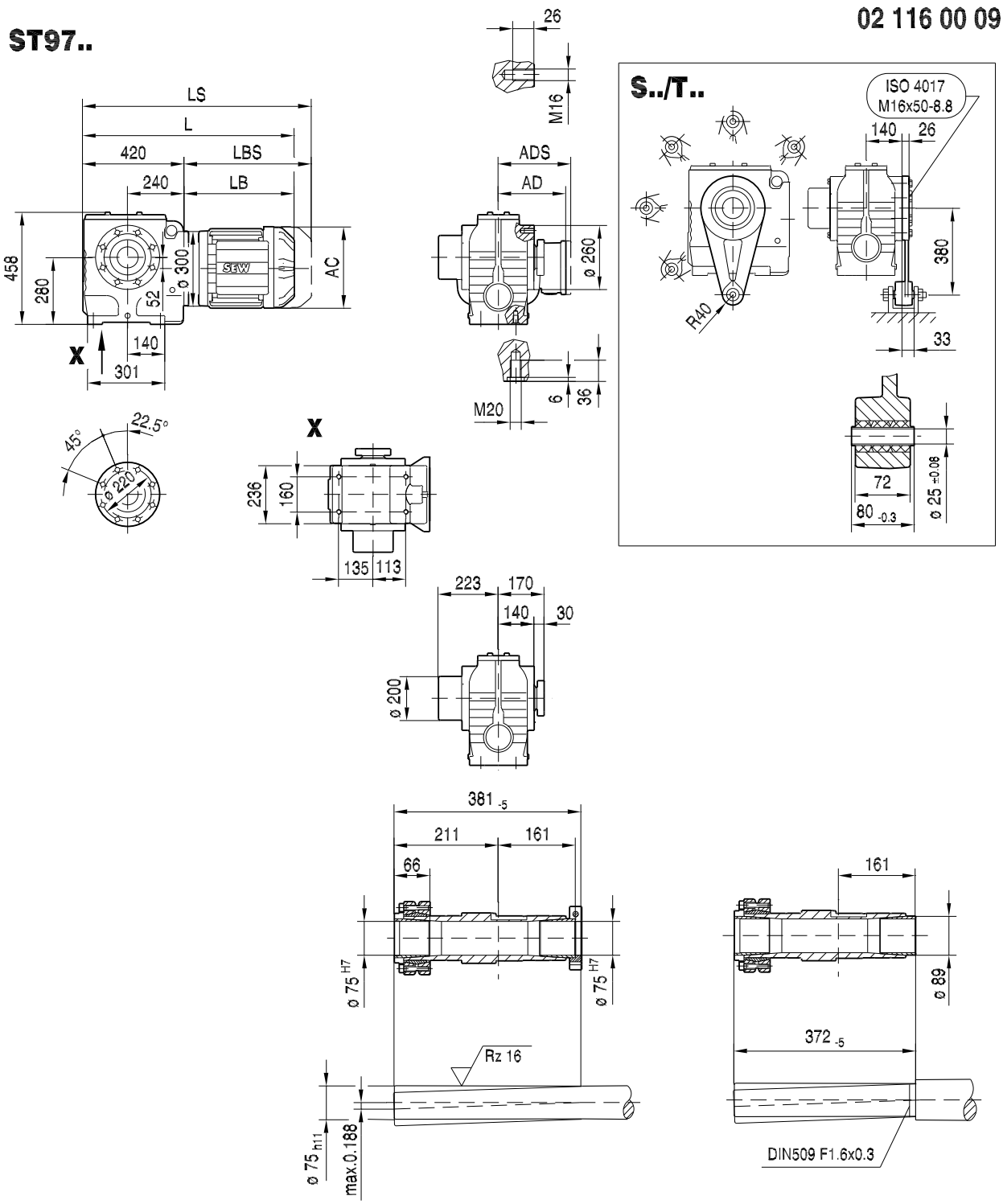
SHZ97..



(→ 127)	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200
AC	179	179	197	197	221	221	270	316	316	394
AD	150	150	158	158	172	172	228	253	253	283
ADS	150	150	158	158	172	172	228	253	253	283
L	666	686	716	746	789	839	880	949	1009	1082
LS	759	779	809	839	901	951	1017	1138	1198	1287
LB	246	266	296	326	369	419	460	529	589	662
LBS	339	359	389	419	481	531	597	718	778	867

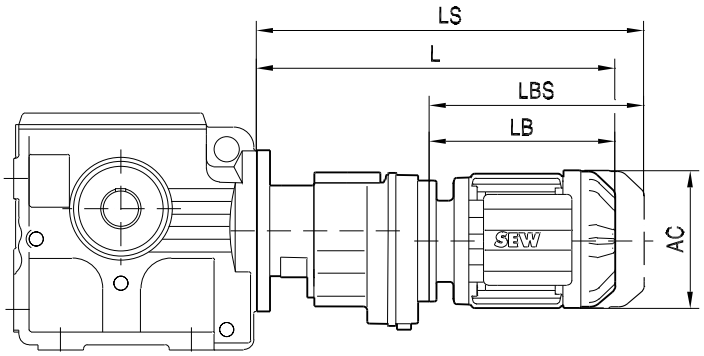
ST97..

02 116 00 09



(→ 127)	EDR90M	EDR90L	EDR100M	EDR100L/LC	EDR132S	EDR132M/MC	EDR160..	EDR180S/M	EDR180L/LC	EDR200
AC	179	179	197	197	221	221	270	316	316	394
AD	150	150	158	158	172	172	228	253	253	283
ADS	150	150	158	158	172	172	228	253	253	283
L	666	686	716	746	789	839	880	949	1009	1082
LS	759	779	809	839	901	951	1017	1138	1198	1287
LB	246	266	296	326	369	419	460	529	589	662
LBS	339	359	389	419	481	531	597	718	778	867

02 080 00 06

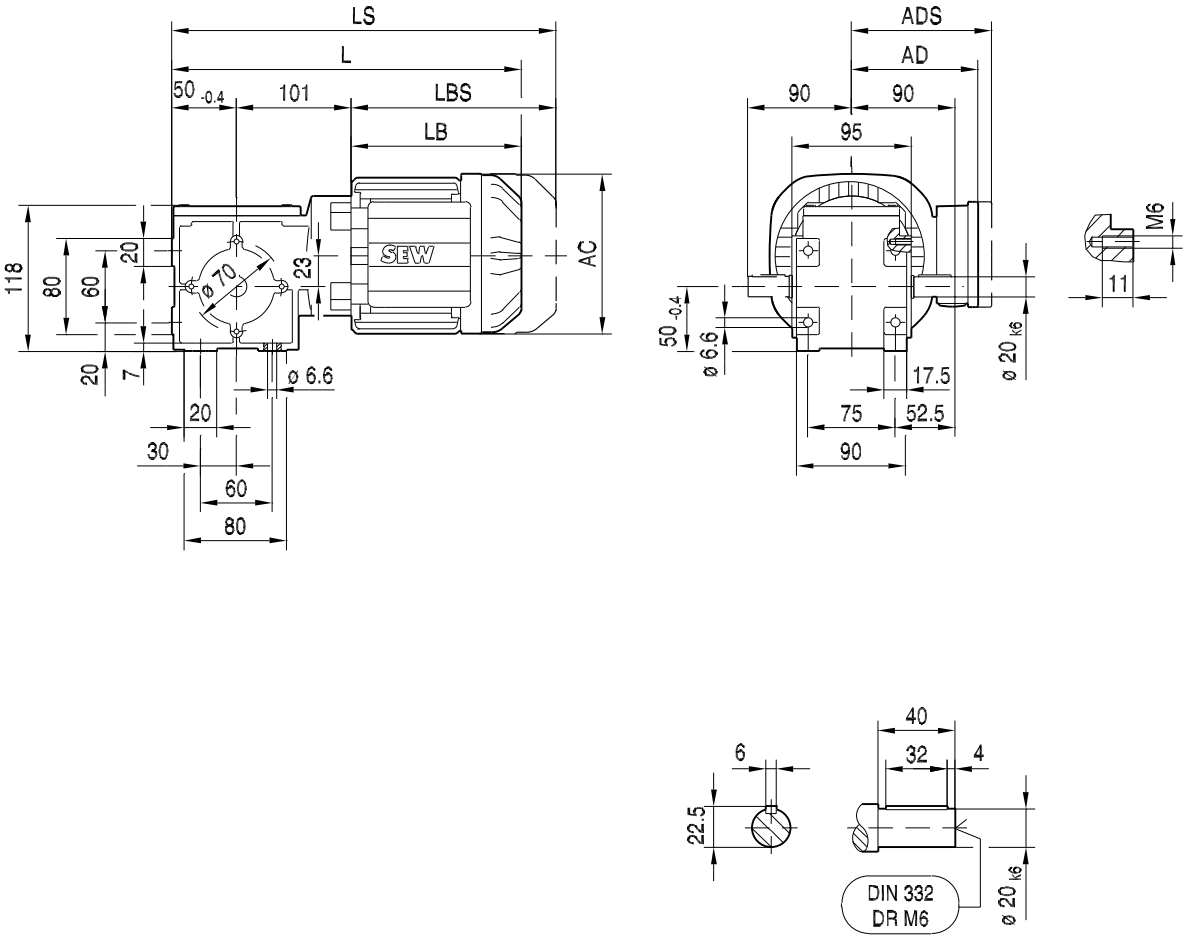


(→ 127)		AC	L	LS	LB	LBS
S..37R17	DR63..	132	324	379	149	204
S..47R17	DR63..	132	324	379	149	204
	EDR71S..	139	335	403	160	228
S..57R17	EDR63..	132	324	379	149	204
	EDR71S..	139	335	403	160	228
	EDR71M..	139	360	428	185	253
S..67R37	DR63..	132	356	411	191	246
	EDR71S..	139	367	435	202	270
	EDR71M..	139	392	460	227	295
	EDR80S..	156	401	482	236	317
S..77R37	DR63..	132	348	403	191	246
	EDR71S..	139	359	427	202	270
	EDR71M..	139	384	452	227	295
	EDR80S..	156	393	474	236	317
	EDR80M..	156	424	505	267	348
S..87R57	DR63	132	401	456	185	240
	EDR71S..	139	412	479	196	263
	EDR71M..	139	437	504	221	288
	EDR80S..	156	446	527	230	311
	EDR80M..	156	477	558	261	342
	EDR90M..	179	478	572	262	356
	EDR90L..	179	498	592	282	376
S..97R57	DR63	132	396	451	185	240
	EDR71S..	139	407	474	196	263
	EDR71M..	139	432	499	221	288
	EDR80S..	156	441	522	230	311
	EDR80M..	156	472	553	261	342
	EDR90M..	179	473	567	262	356
	EDR90L..	179	493	587	282	376
	EDR100M..	197	523	617	312	406
	EDR100LC..	197	553	647	342	436

10.5 SPIROPLAN® gearmotors

W20..

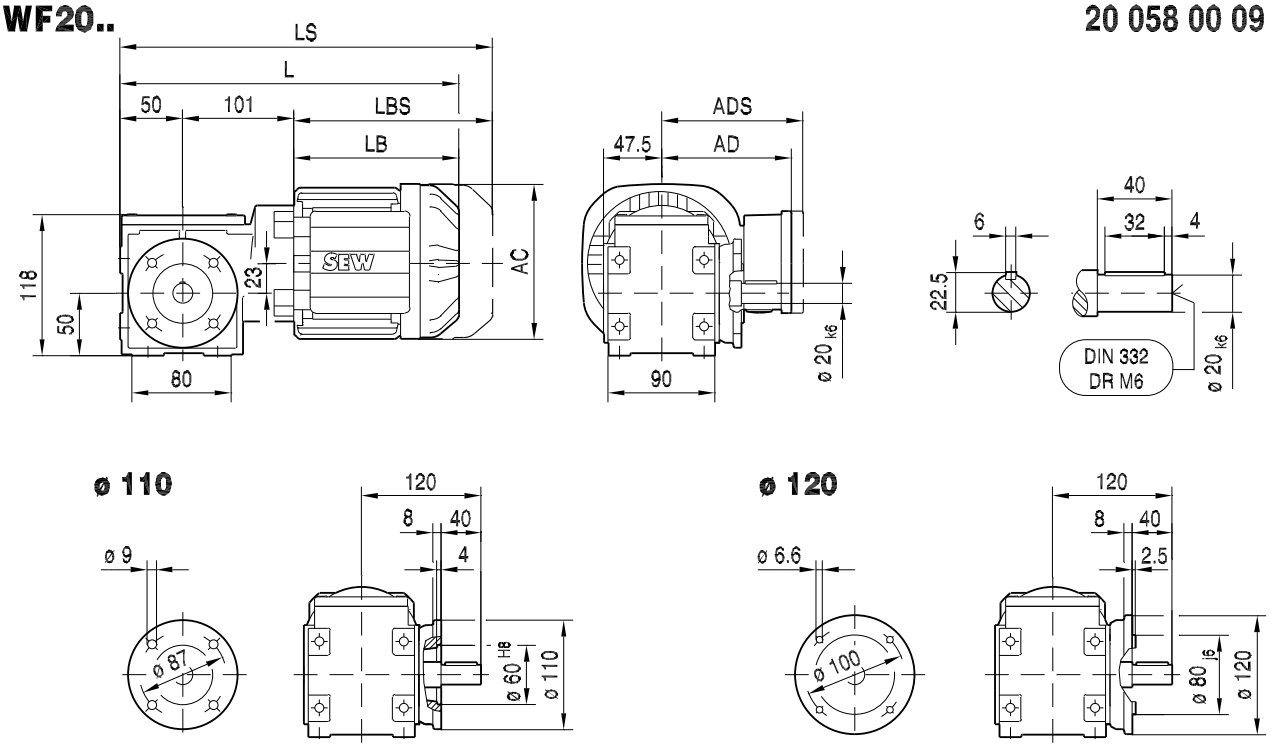
20 057 00 09



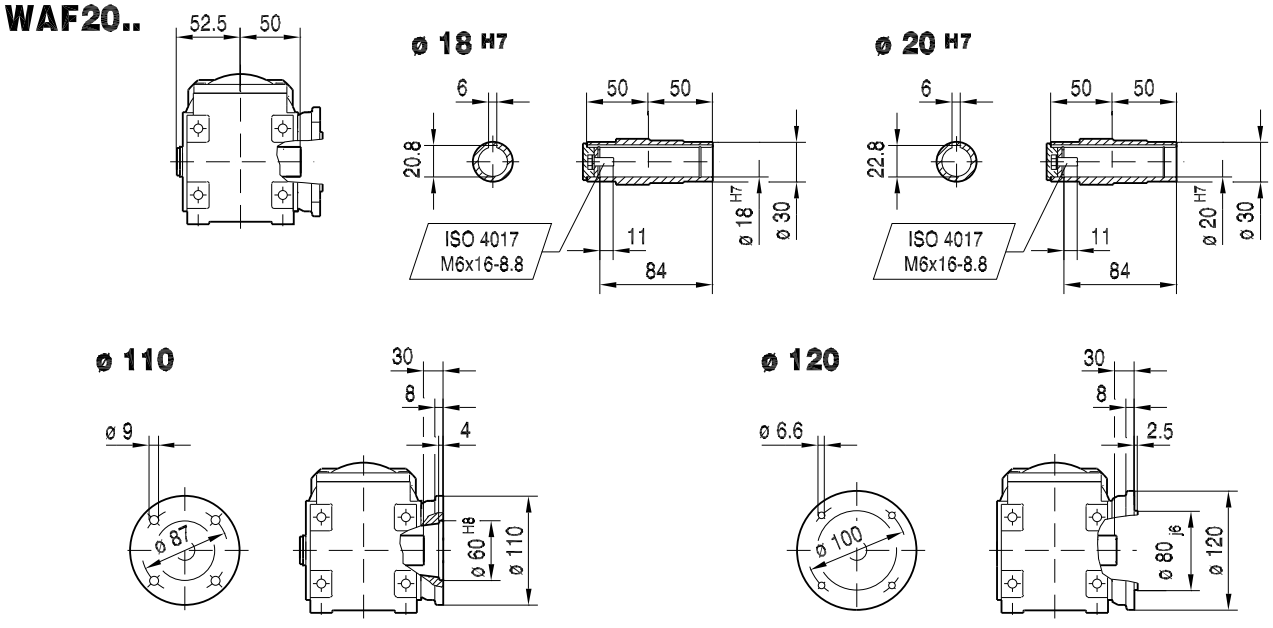
(→ 127)	DR63..	EDR71S	EDR71M					
AC	132	139	139					
AD	105	129	129					
ADS	105	129	129					
L	300	311	336					
LS	355	379	404					
LB	149	160	185					
LBS	204	228	253					

WF20..

20 058 00 09

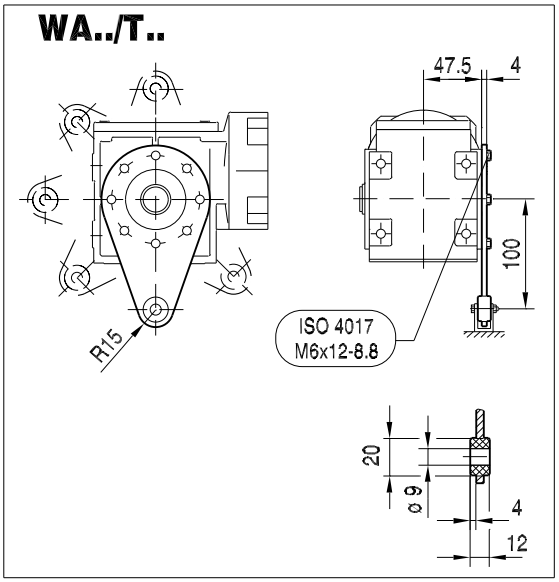


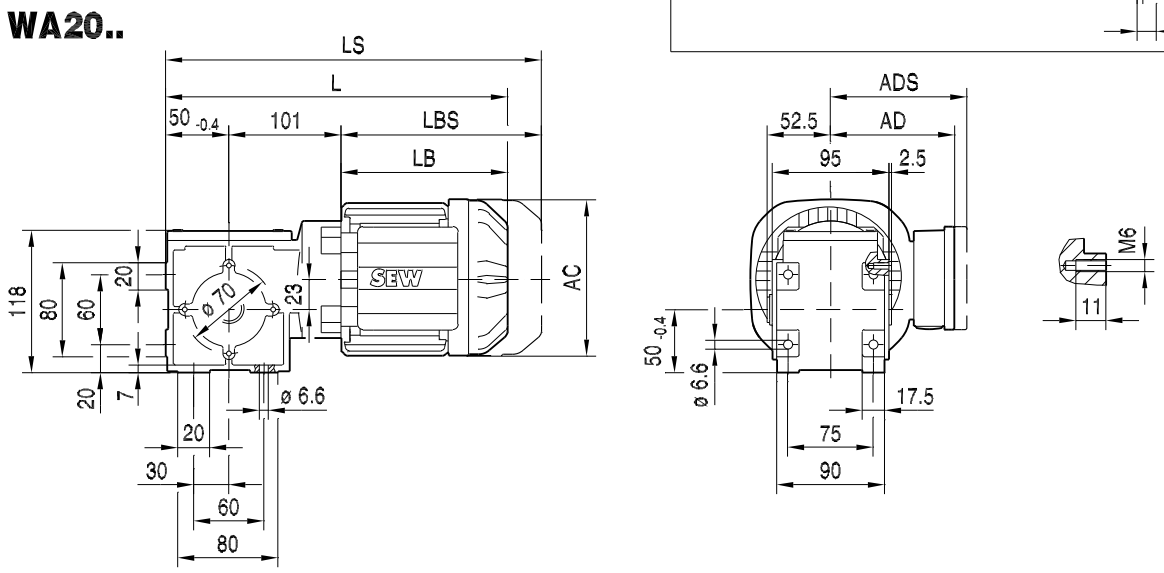
WAF20..

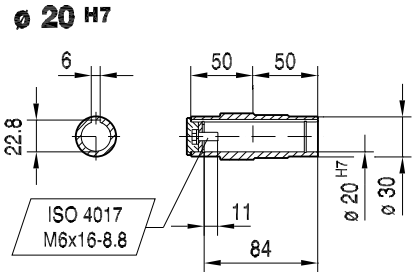


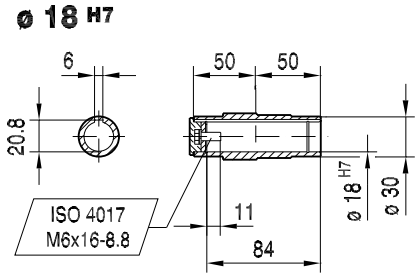
(→ 127)	DR63..	EDR71S	EDR71M					
AC	132	139	139					
AD	105	129	129					
ADS	105	129	129					
L	300	311	336					
LS	355	379	404					
LB	149	160	185					
LBS	204	228	253					

20 059 00 09





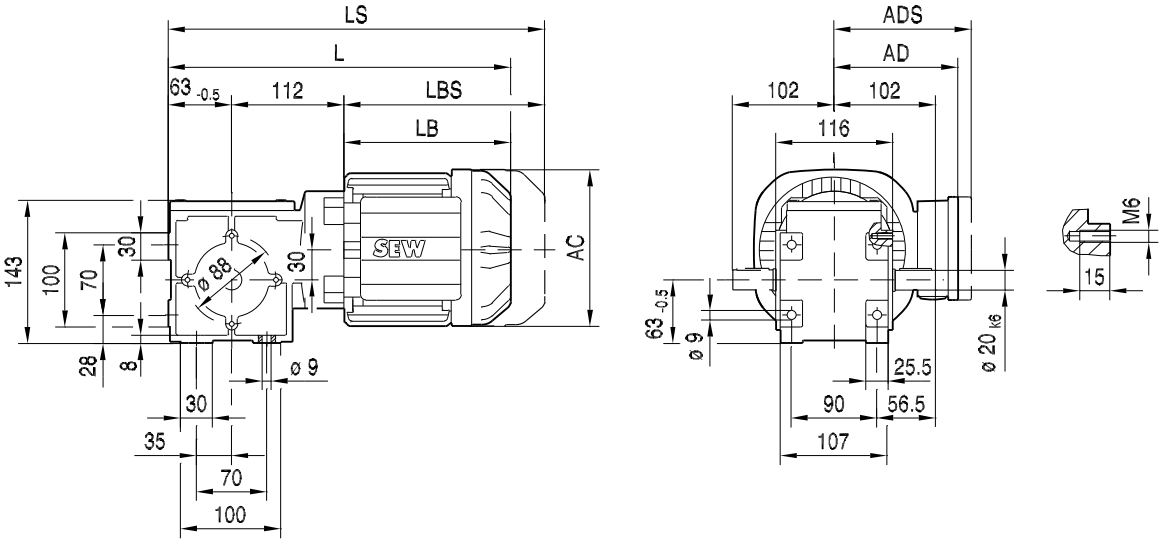




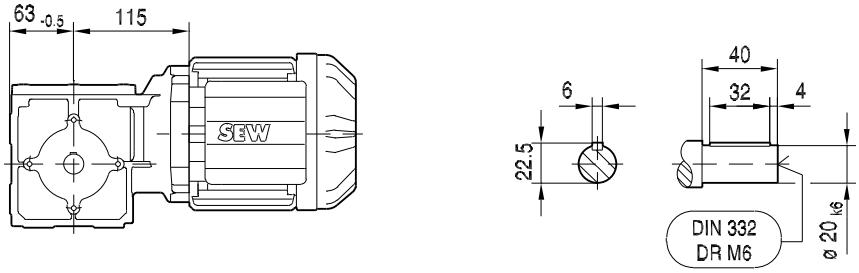
(→ 127)	DR63..	EDR71S	EDR71M					
AC	132	139	139					
AD	105	129	129					
ADS	105	129	129					
L	300	311	336					
LS	355	379	404					
LB	149	160	185					
LBS	204	228	253					

20 060 00 09

W30..



DR80..

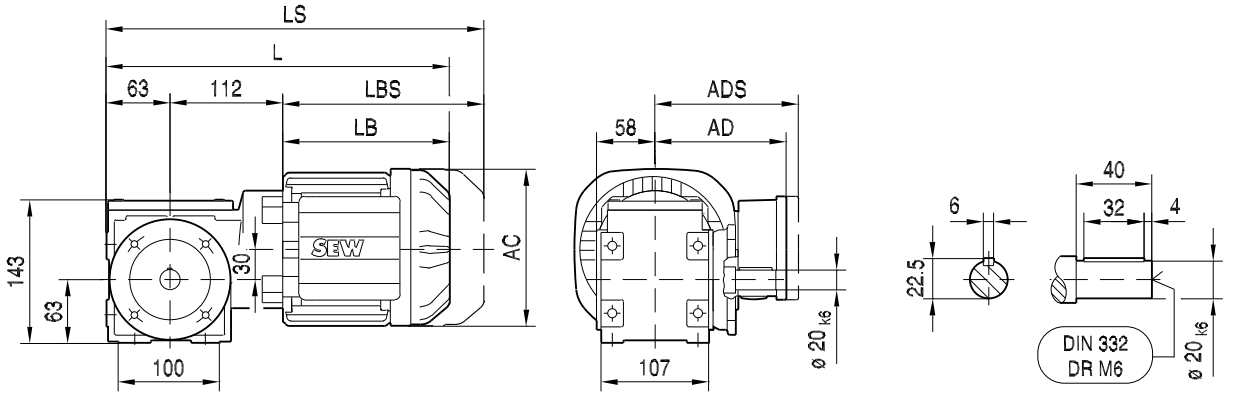


10

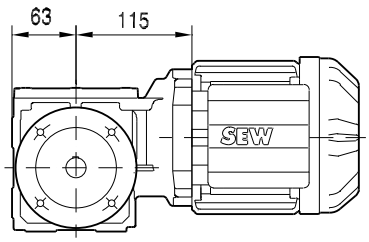
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M			
AC	132	139	139	156	156			
AD	105	129	129	139	139			
ADS	105	129	129	139	139			
L	324	335	360	364	395			
LS	379	403	428	445	476			
LB	149	160	185	189	220			
LBS	204	228	253	270	301			

WF30..

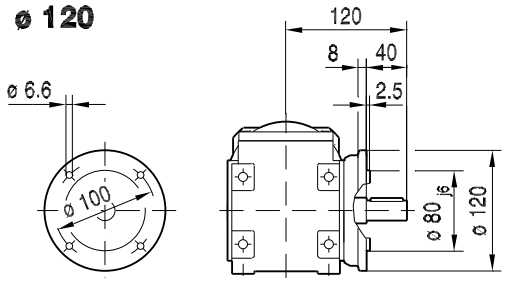
20 061 00 09



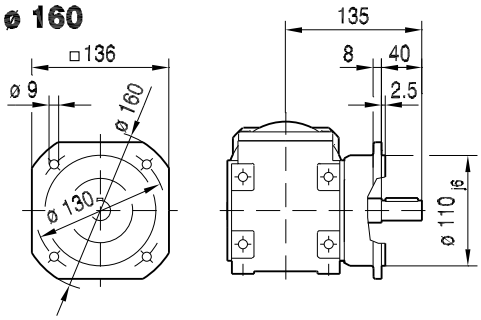
DR80..



ø 120



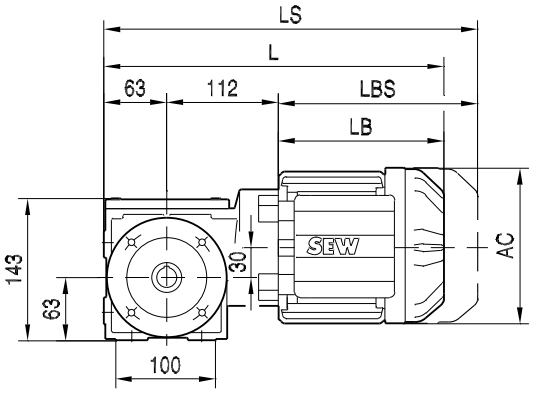
ø 160

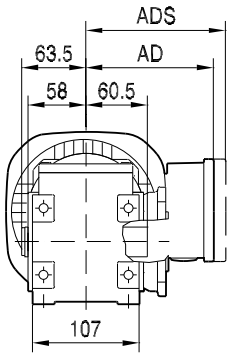


(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M			
AC	132	139	139	156	156			
AD	105	129	129	139	139			
ADS	105	129	129	139	139			
L	324	335	360	364	395			
LS	379	403	428	445	476			
LB	149	160	185	189	220			
LBS	204	228	253	270	301			

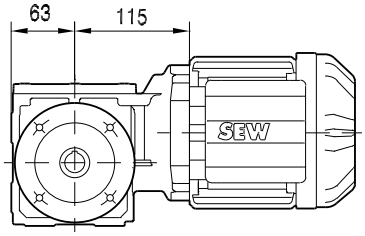
WAF30..

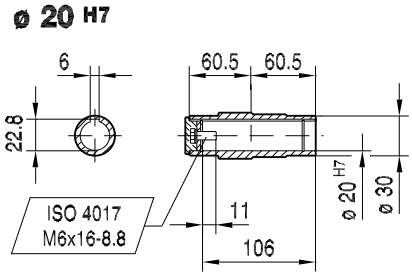
20 007 00 11

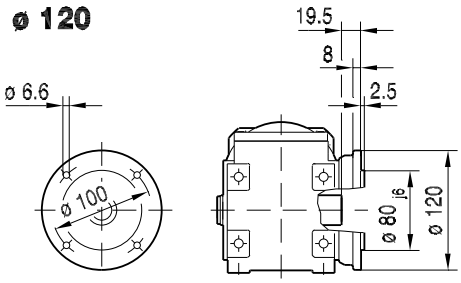


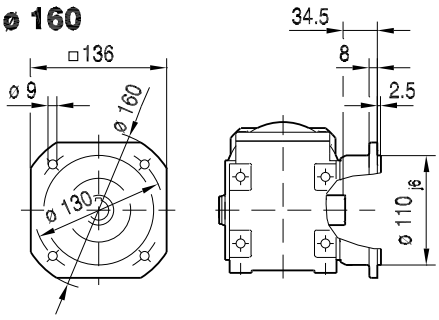


DR80..





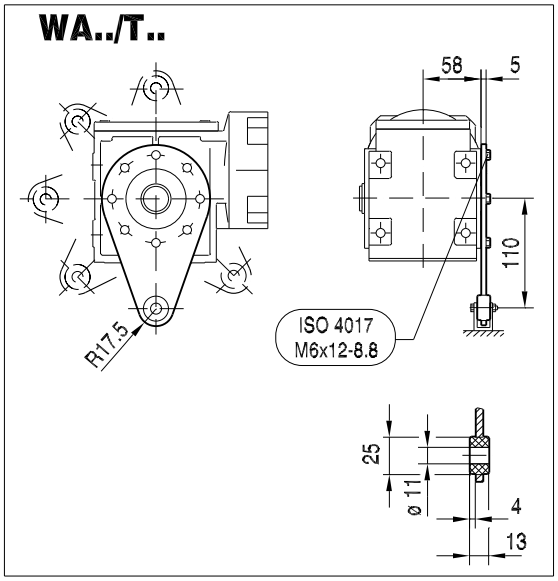




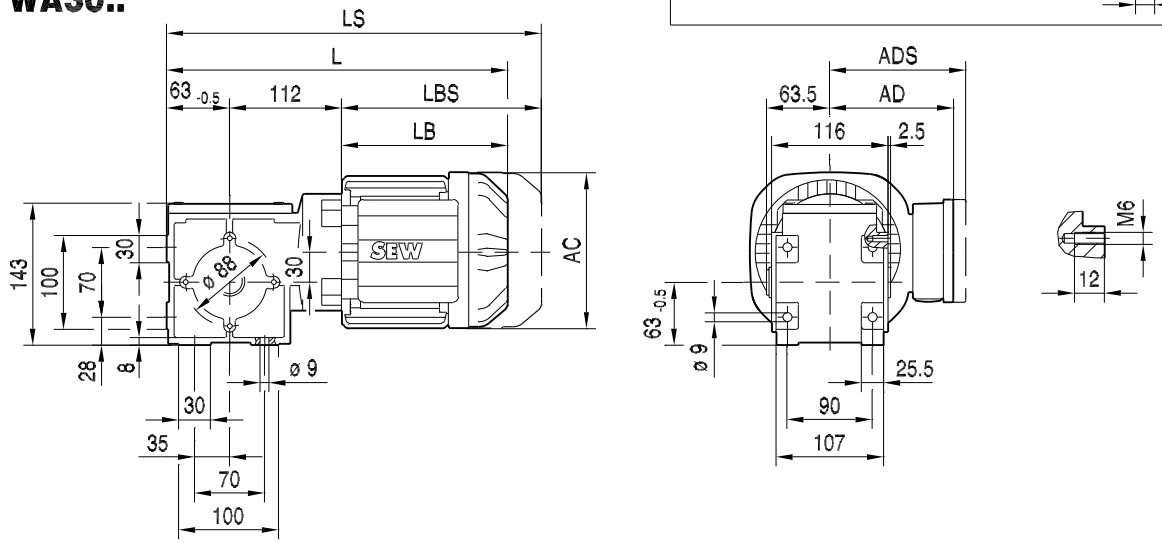
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M			
AC	132	139	139	156	156			
AD	105	129	129	139	139			
ADS	105	129	129	139	139			
L	149	160	185	189	220			
LS	204	228	253	270	301			
LB	149	160	185	189	220			
LBS	204	228	253	270	301			

20 062 00 09

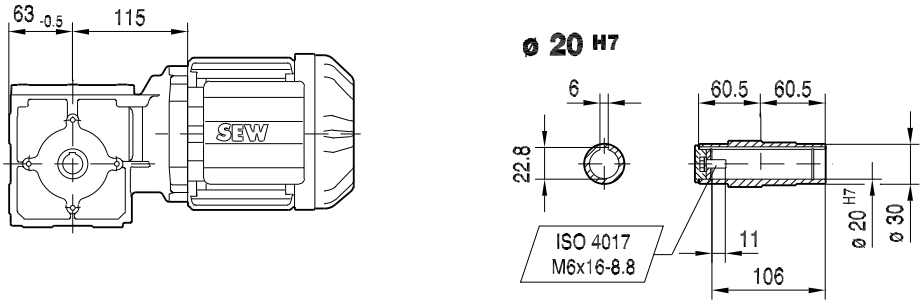
WA../T..



WA30..



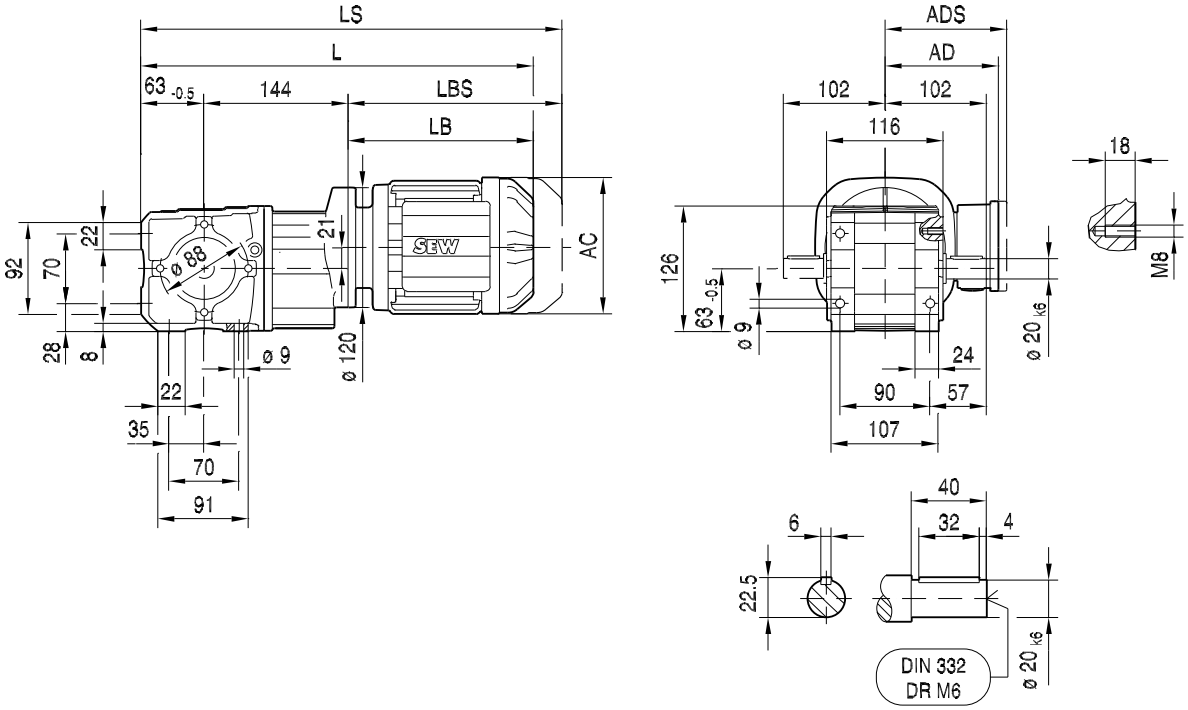
DR80..



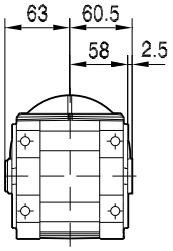
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M			
AC	132	139	139	156	156			
AD	105	129	129	139	139			
ADS	105	129	129	139	139			
L	324	335	360	364	395			
LS	379	403	428	445	476			
LB	149	160	185	189	220			
LBS	204	228	253	270	301			

20 063 00 09

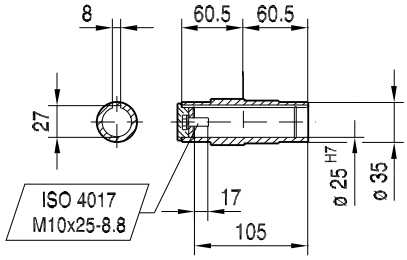
W37..



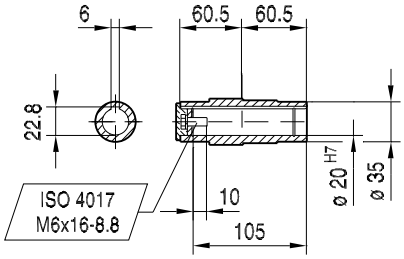
WA37B..



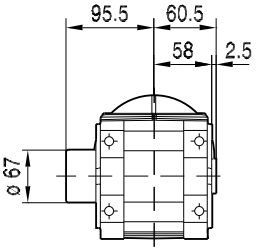
ø 25 H7
DIN 6885-3

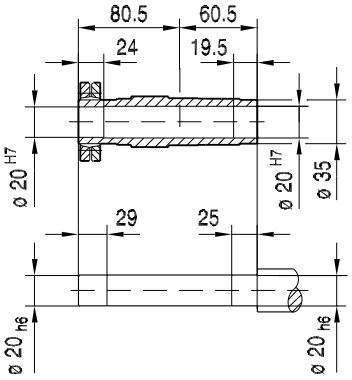


ø 20 H7



WH37B..

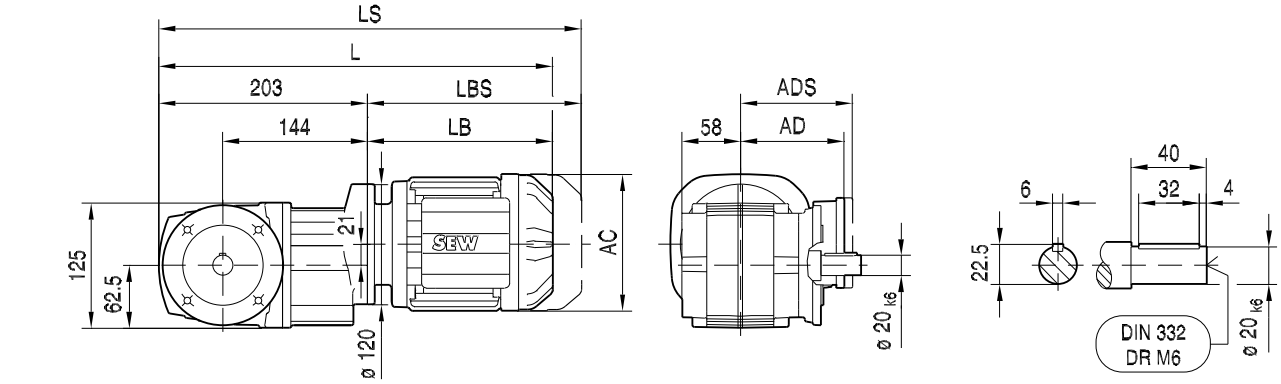


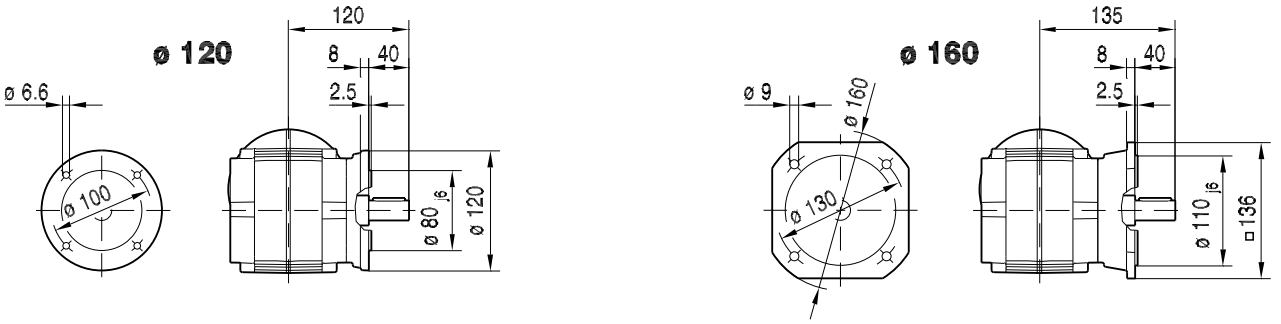


(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	
AC	132	139	139	156	156	179	179	
AD	105	129	129	139	139	150	150	
ADS	105	129	129	139	139	150	150	
L	398	410	435	444	475	479	499	
LS	453	477	502	525	556	572	592	
LB	191	203	228	237	268	272	292	
LBS	246	270	295	318	349	365	385	

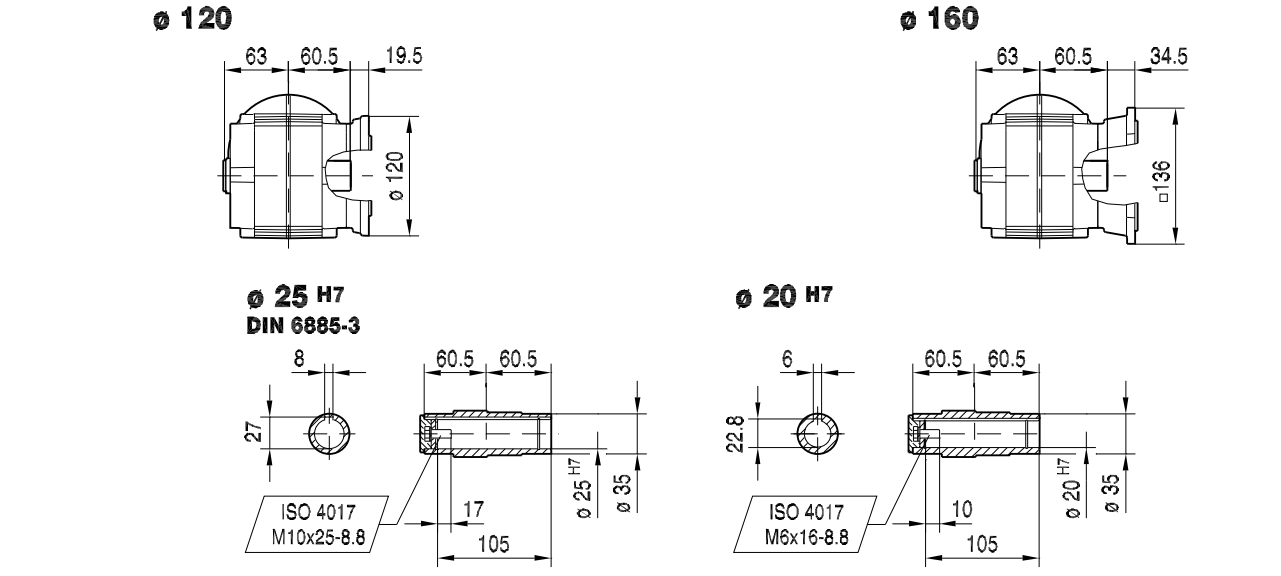
20 064 00 09

WF37..





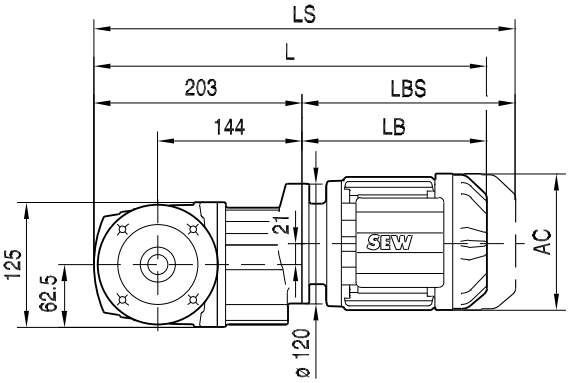
WAF37..



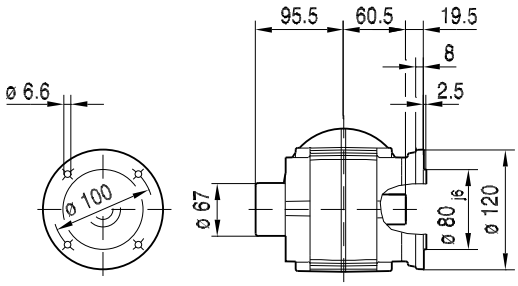
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	
AC	132	139	139	156	156	179	179	
AD	105	129	129	139	139	150	150	
ADS	105	129	129	139	139	150	150	
L	394	406	431	440	471	475	495	
LS	449	473	498	521	552	568	588	
LB	191	203	228	237	268	272	292	
LBS	246	270	295	318	349	365	385	

20 065 00 09

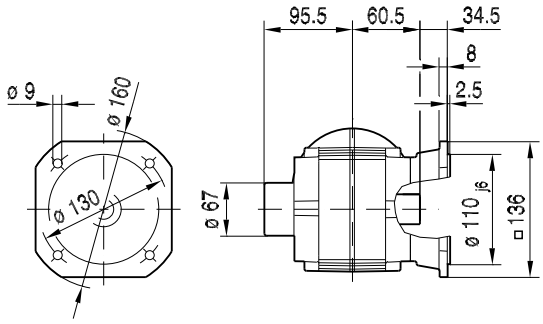
WHF37..

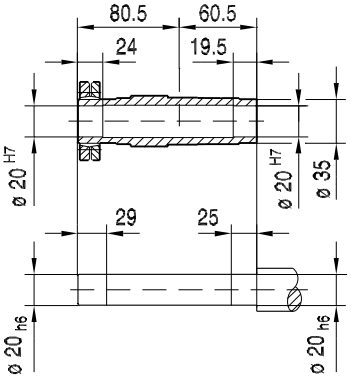


ø 120



ø 160

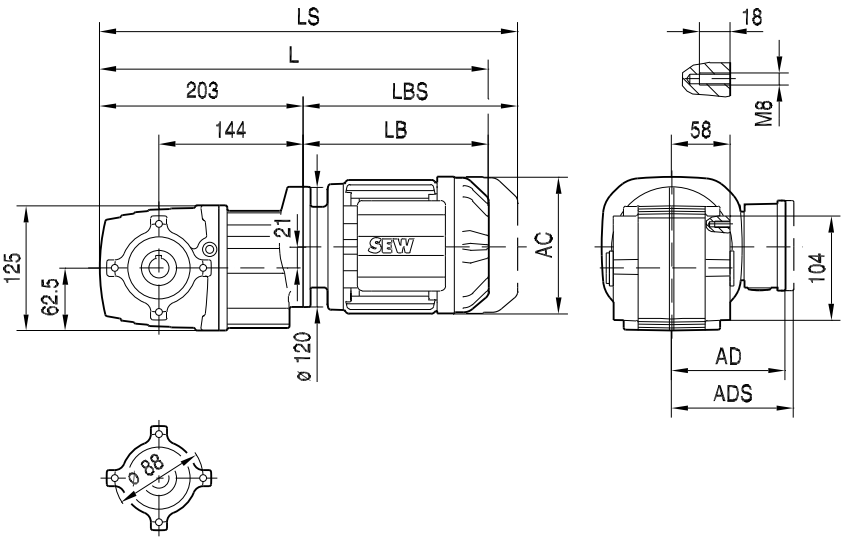




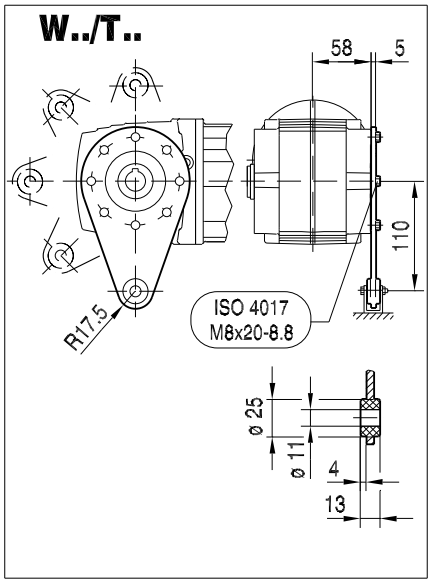
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	
AC	132	139	139	156	156	179	179	
AD	105	129	129	139	139	150	150	
ADS	105	129	129	139	139	150	150	
L	394	406	431	440	471	475	495	
LS	449	473	498	521	552	568	588	
LB	191	203	228	237	268	272	292	
LBS	246	270	295	318	349	365	385	

20 066 00 09

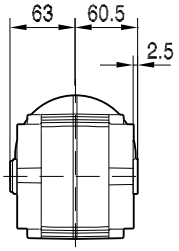
WA37..



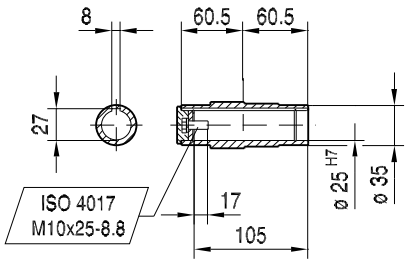
W../T..



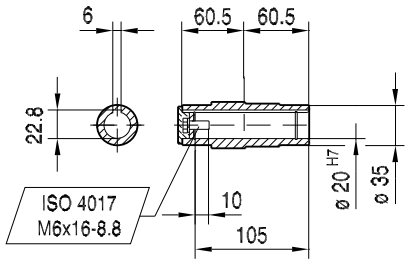
WA37..



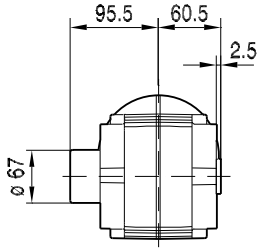
ø 25 H7
DIN 6885-3

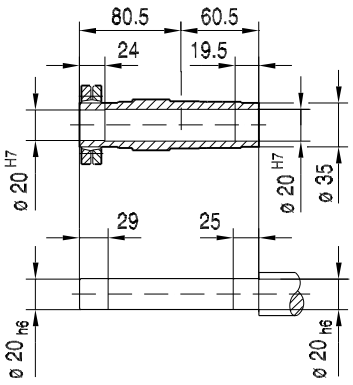


ø 20 H7



WH37..

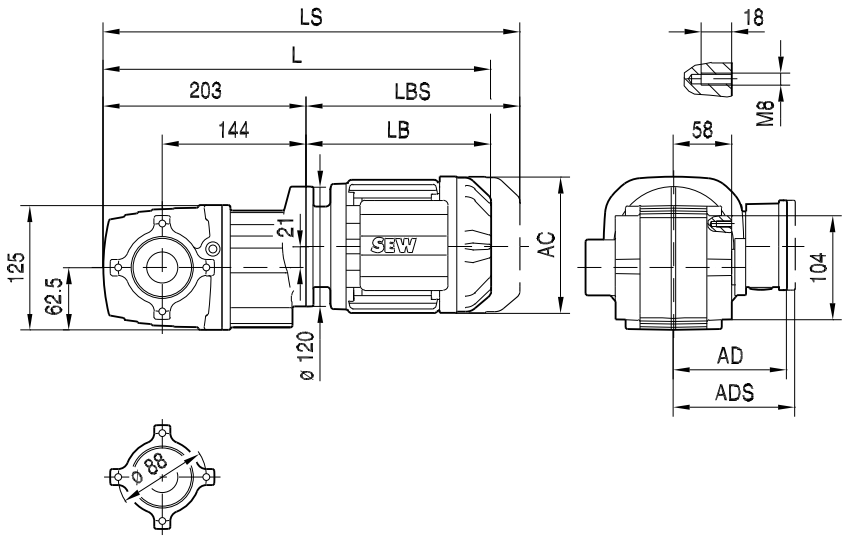




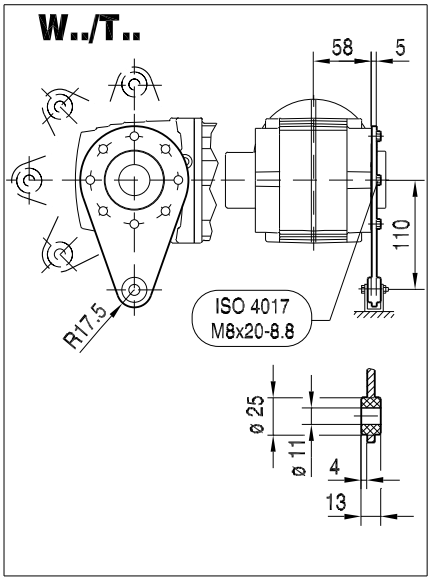
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	
AC	132	139	139	156	156	179	179	
AD	105	129	129	139	139	150	150	
ADS	105	129	129	139	139	150	150	
L	394	406	431	440	471	475	495	
LS	449	473	498	521	552	568	588	
LB	191	203	228	237	268	272	292	
LBS	246	270	295	318	349	365	385	

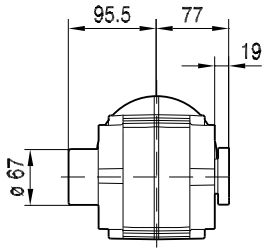
20 067 00 09

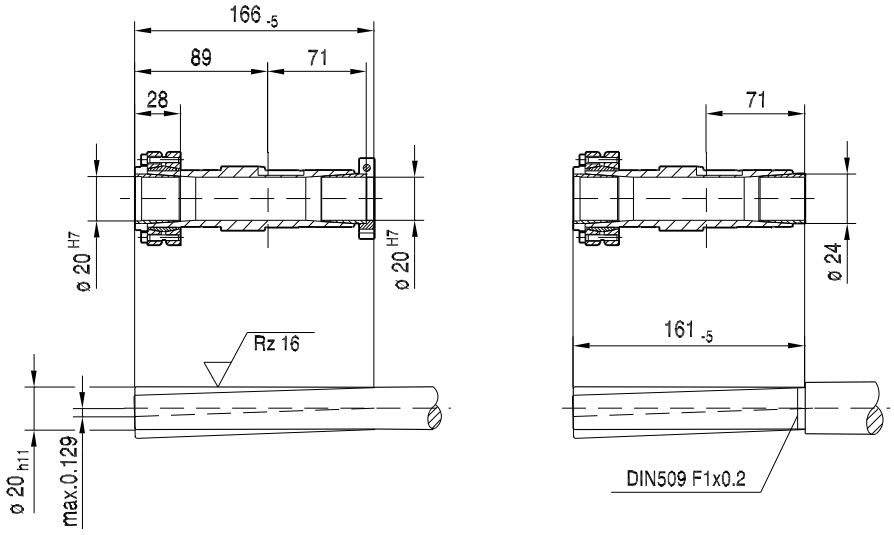
WT37..



W../T..



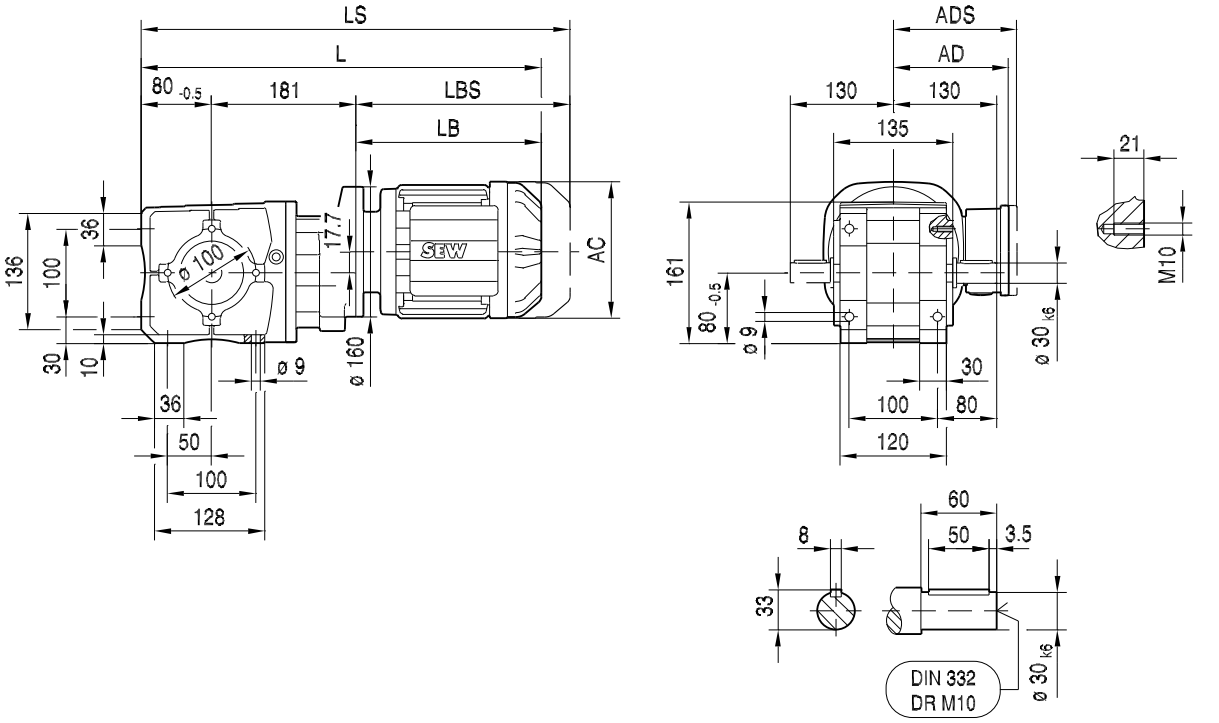




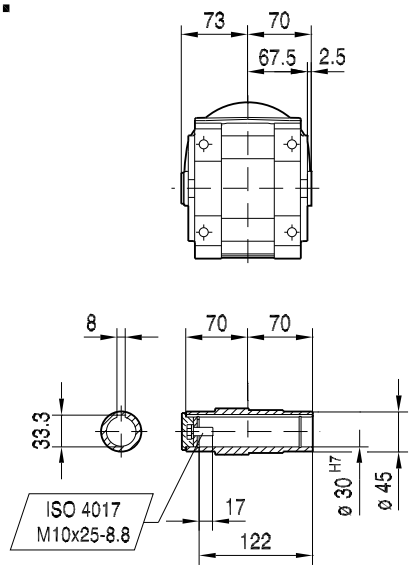
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	
AC	132	139	139	156	156	179	179	
AD	105	129	129	139	139	150	150	
ADS	105	129	129	139	139	150	150	
L	394	406	431	440	471	475	495	
LS	449	473	498	521	552	568	588	
LB	191	203	228	237	268	272	292	
LBS	246	270	295	318	349	365	385	

20 068 00 09

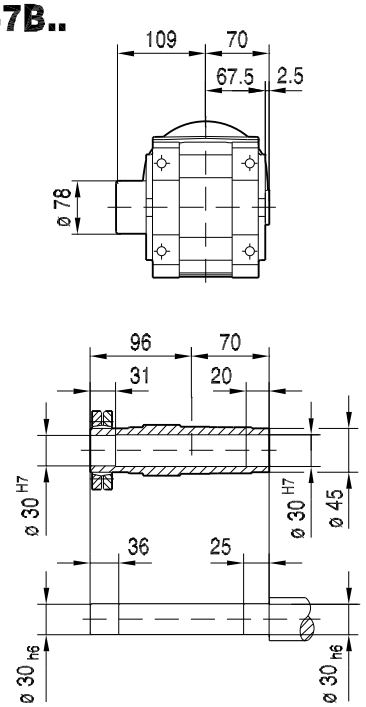
W47..



WA47B..



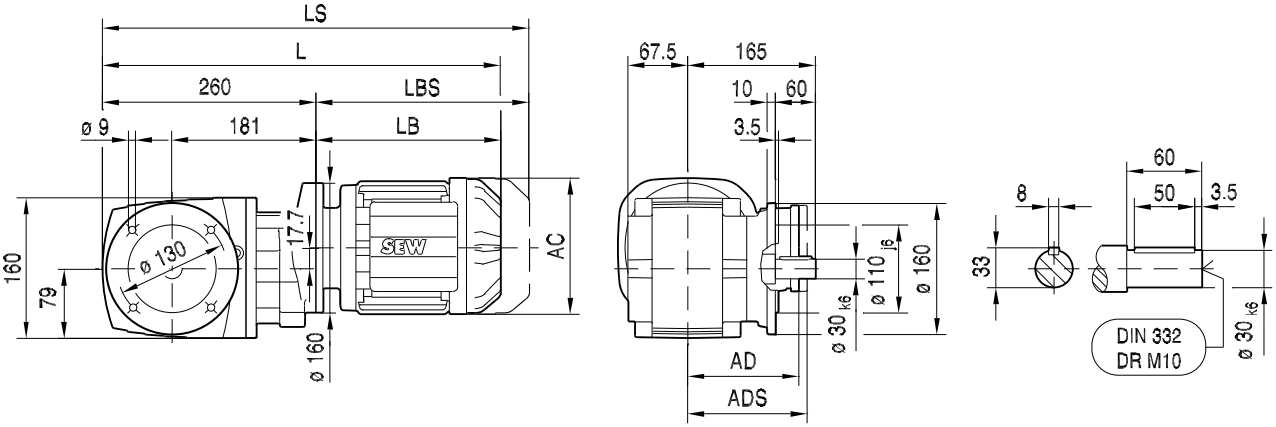
WH47B..



(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	446	457	482	491	522	524	544	574	604
LS	501	525	550	572	603	617	637	667	697
LB	185	196	221	230	261	263	283	313	343
LBS	240	264	289	311	342	356	376	406	436

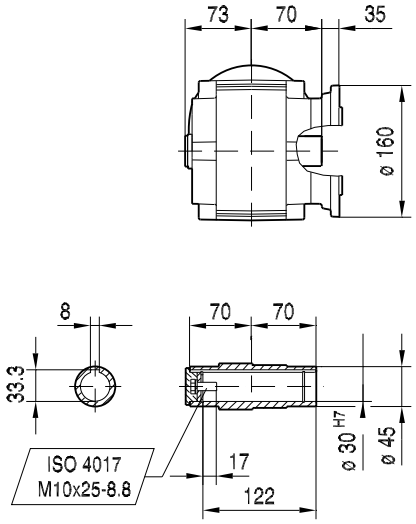
20 069 00 09

WF47..

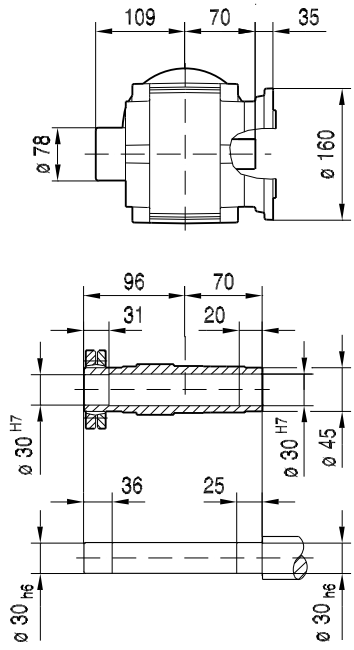


10

WAF47..



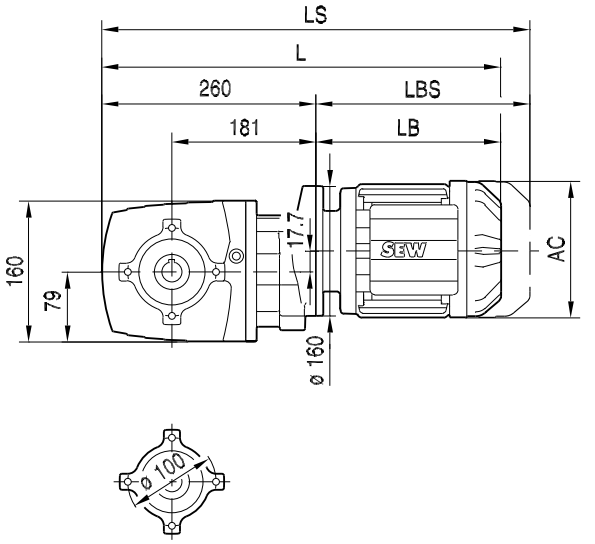
WHF47..



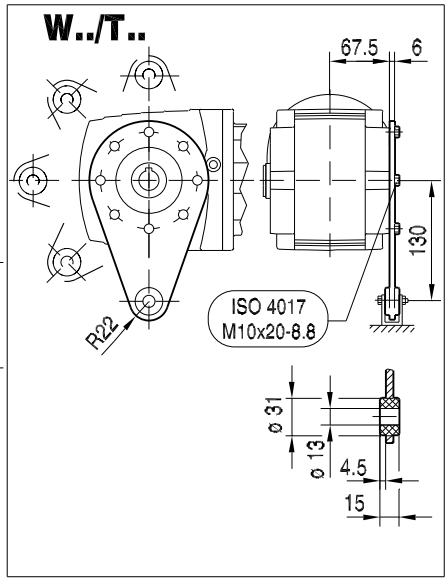
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	445	456	481	490	521	523	543	573	603
LS	500	524	549	571	602	616	636	666	696
LB	185	196	221	230	261	263	283	313	343
LBS	240	264	289	311	342	356	376	406	436

20 070 00 09

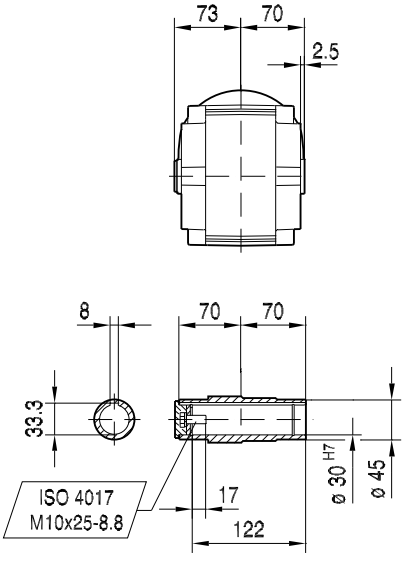
WA47..



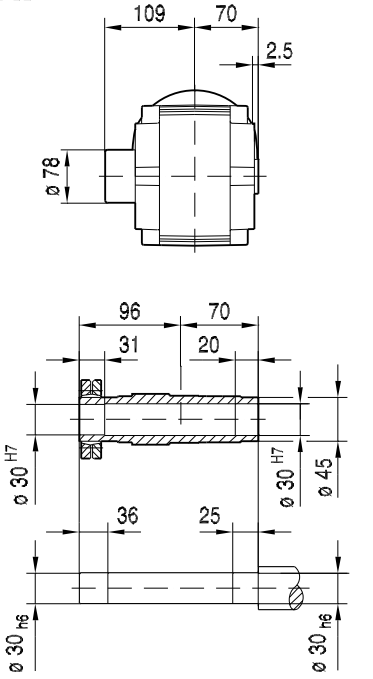
W../T..



WA47..



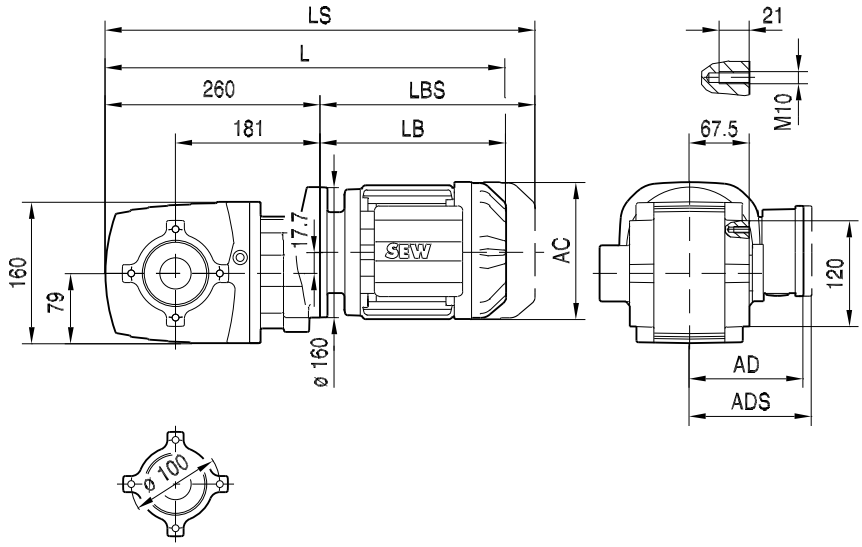
WH47..

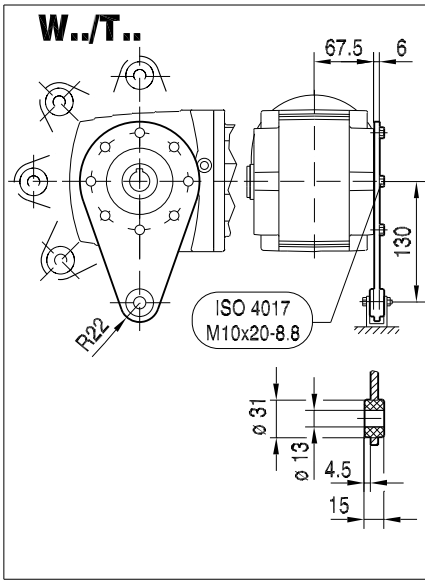


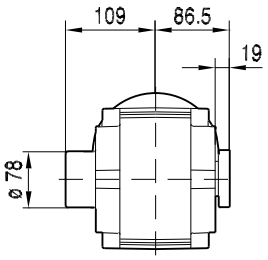
(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	445	456	481	490	521	523	543	573	603
LS	500	524	549	571	602	616	636	666	696
LB	185	196	221	230	261	263	283	313	343
LBS	240	264	289	311	342	356	376	406	436

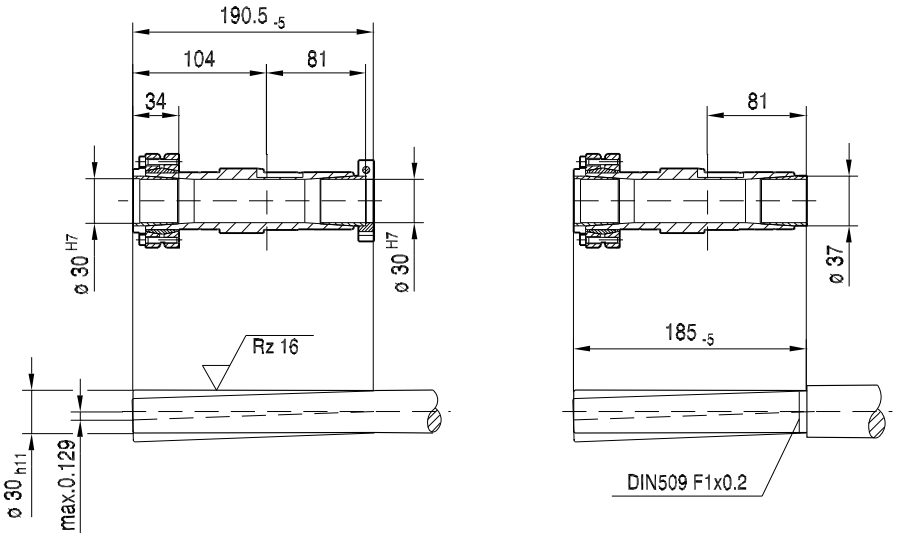
20 071 00 09

WT47..



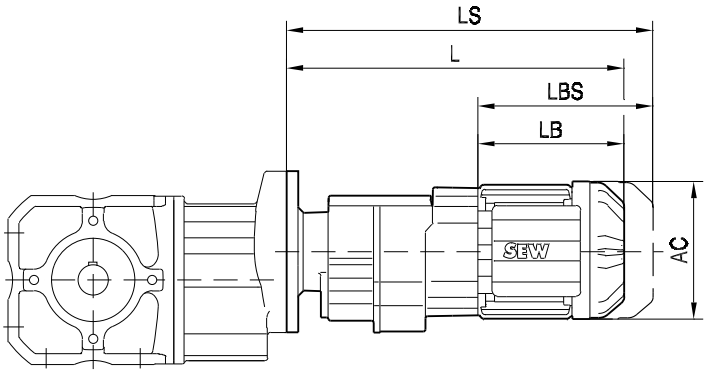






(→ 127)	DR63..	EDR71S	EDR71M	EDR80S	EDR80M	EDR90M	EDR90L	EDR100M	EDR100L/LC
AC	132	139	139	156	156	179	179	197	197
AD	105	129	129	139	139	150	150	158	158
ADS	105	129	129	139	139	150	150	158	158
L	445	456	481	490	521	523	543	573	603
LS	500	524	549	571	602	616	636	666	696
LB	185	196	221	230	261	263	283	313	343
LBS	240	264	289	311	342	356	376	406	436

20 018 00 09



(→ 127)		AC	L	LS	LB	LBS
W..37R17	DR63..	132	324	379	149	204
	EDR71S..	139	335	403	160	228
W..47R17	DR63..	132	324	379	149	204
	EDR71S..	139	335	403	160	228
	EDR71M..	139	360	428	185	253

11 Technical Data of Explosion-Proof AC Motors

11.1 Key to the data tables

The following table lists the short symbols used in the "Technical Data – DR AC Brakemotors" tables.

P_N	Rated power
M_N	Rated torque
n_N	Rated speed
I_N	Rated current
cosφ	Power factor
$\eta_{50\%}$	Efficiency at 50 % of the rated power
$\eta_{75\%}$	Efficiency at 75 % of the rated power
$\eta_{100\%}$	Efficiency at 100 % of the rated power
I_A/I_N	Starting current ratio
M_A/M_N	Starting torque ratio
M_H/M_N	Ramp-up torque ratio
m	Weight of the motor
J_{Mot}	Mass moment of inertia of the motor
BE..	Brake used
Z_0 BG	Switching frequency for operation with BG brake controller
Z_0 BGE	Switching frequency for operation with BGE brake controller
M_B	Braking torque
m_B	Weight of the brakemotor
J_{MOT_BE}	Mass moment of inertia of the brakemotor

11.2 Technical data of 4-pole explosion-proof energy-efficient motors

11.2.1 Category: ATEX 2G, 2GD, 400 V, temperature class: T3, max. surface temperature: 120 °C

Motor type	P_N kW	M_N Nm	n_N rpm	I_N Voltage range ±5% A	cosφ	IE class	$\eta_{50\%}$ $\eta_{75\%}$ $\eta_{100\%}$ %	I_A/I_N	M_A/M_N M_H/M_N	m kg	J_{Mot} 10^{-4} kgm²	t_E s
EDRS 71S 4	0.25	1.7	1405	0.86	0.67	-	- - -	3.7	2.2 2.1	7.8	4.9	50
EDRS 71M 4	0.37	2.55	1375	1.05	0.76	-	- - -	3.9	2.6 2.5	9.1	7.1	60
EDRS 80S 4	0.55	3.7	1415	1.36	0.81	-	- - -	5.1	2.1 1.8	11.5	14.9	30
EDRE 80M 4	0.55	3.6	1450	1.33	0.76	-	77.7 81.2 81.9	7.1	3.2 2.3	14.3	21.4	35
EDRE 80M 4	0.75	5	1435	1.76	0.79	IE2	79.2 81.3 81.0	6.1	2.8 2.1	14.3	21.4	30

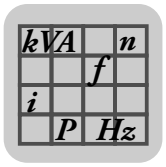
Table continued on next page.

Motor type	P_N kW	M_N Nm	n_N rpm	I_N Voltage range ±5% A	cosφ	IE class	$\eta_{50\%}$ $\eta_{75\%}$ $\eta_{100\%}$ %	I_A/I_N	M_A/M_N M_H/M_N	m kg	J_{Mot} 10^{-4} kgm²	t_E s
EDRE 90M 4	1.1	7.4	1420	2.6	0.79	IE2	82.5 83.5 82.4	6.1	2.8 2.3	18.4	35.4	20
EDRE 90L 4	1.5	10	1430	3.5	0.77	IE2	83.5 84.7 84.0	6.9	3.2 2.8	21.4	43.7	16
EDRE 100M 4	2.2	14.7	1425	4.9	0.80	IE2	86.3 86.7 85.4	6.6	3.3 2.7	26	56	9
EDRE 100L 4	2.2	14.6	1435	5.2	0.76	IE2	85.8 87.5 87.1	7.3	4.2 3.2	29	68.3	16
EDRE 100LC 4	3	19.7	1455	6.5	0.81	IE2	86.3 87.1 86.3	7.7	2.7 2.4	31.2	89.8	6
EDRE 112M 4	3	19.7	1455	6.4	0.83	IE2	87.7 87.4 86.5	6.5	2.4 2.0	41.3	146	20
EDRE 132S 4	4	26	1460	8.4	0.82	IE2	87.6 88.2 87.4	8.1	2.7 2.4	46.3	190	15
EDRE 132M 4	5.5	36	1455	11.3	0.85	IE2	89.8 89.6 88.3	7.0	2.6 1.9	60	253	15
EDRE 160S 4	7.5	49	1460	15.4	0.82	IE2	90.3 90.3 89.3	6.6	2.4 1.8	79.5	370	12
EDRE 160M 4	9.2	60	1470	19.1	0.80	IE2	90.4 90.7 90.0	8.0	2.9 2.2	88.5	448	11
EDRE 180S 4	11	71	1470	22	0.83	IE2	89.5 90.4 90.2	7.8	2.6 2.2	121.9	895	14
EDRE 180M 4	15	97	1470	29.5	0.85	IE2	90.9 91.5 91.0	7.6	2.4 2.0	138.3	1110	10
EDRE 180L 4	18.5	120	1475	35.5	0.85	IE2	91.4 92.0 91.6	7.5	2.5 2.1	152.1	1300	8
EDRE 200L 4	22	142	1480	43.5	0.82	IE2	92.0 92.8 92.6	7.5	2.5 2.0	258	2360	11
EDRE 225S 4	30	194	1480	58	0.84	IE2	93.1 93.5 93.1	7.2	2.4 2.0	287.7	2930	5
EDRE 225M 4	37	240	1480	72	0.84	IE2	93.3 93.5 93.0	7.8	2.5 2.0	315.5	3430	5

11.2.2 Category: ATEX 3GD, 400 V, temperature class: T3, max. surface temperature: 120 °C or 140 °C

Motor type	P_N kW	M_N Nm	n_N rpm	I_N A	I_N Voltage range ±5% A	cosφ	IE	$\eta_{50\%}$ $\eta_{75\%}$ $\eta_{100\%}$ %	I_A/I_N	M_A/M_N M_H/M_N	m kg	J_{Mot} 10^{-4} kgm²
EDRS 71S 4	0.25	1.7	1405	0.8	0.86	0.67	-	- - -	3.8	2.2 2.1	7.8	4.9
EDRS 71M 4	0.37	2.55	1375	1	1	0.76	-	- - -	4.0	2.6 2.5	9.1	7.1
EDRS 80S 4	0.55	3.7	1415	1.35	1.38	0.81	-	- - -	5.1	2.1 1.8	11.5	14.9
EDRE 80M 4	0.75	5	1435	1.73	1.73	0.79	IE2	79.2 81.3 81.0	6.2	2.8 2.1	14.3	21.4
EDRE 90M 4	1.1	7.4	1420	2.5	2.55	0.79	IE2	82.5 83.5 82.4	5.9	2.8 2.3	18.4	35.4
EDRE 90L 4	1.5	10	1430	3.45	3.5	0.77	IE2	83.5 84.7 84.0	6.6	3.2 2.8	21.4	43.7
EDRE 100M 4	2.2	14.7	1425	4.8	4.9	0.80	IE2	86.3 86.7 85.4	6.4	3.3 2.7	26	56
EDRE 100LC 4	3	19.7	1455	6.3	6.4	0.81	IE2	86.3 87.1 86.3	7.5	2.7 2.4	31.2	89.8
EDRE 112M 4	3	19.7	1455	6.2	6.4	0.83	IE2	87.7 87.4 86.5	7.3	2.4 2.0	41.3	146
EDRE 132S 4	4	26	1460	8.1	8.4	0.82	IE2	87.6 88.2 87.4	8.0	2.7 2.4	46.3	190
EDRE 132M 4	5.5	36	1455	10.7	11.3	0.85	IE2	89.8 89.6 88.3	7.7	2.6 1.9	60	253
EDRE 160S 4	7.5	49	1460	14.9	15.4	0.82	IE2	90.3 90.3 89.3	6.5	2.4 1.8	79.5	370
EDRE 160M 4	9.2	60	1470	18.9	19.1	0.80	IE2	90.4 90.7 90.0	7.7	2.9 2.2	88.5	448
EDRE 180S 4	11	71	1470	21	22	0.83	IE2	89.5 90.4 90.2	7.2	2.6 2.2	121.9	895
EDRE 180M 4	15	97	1470	28.5	29.5	0.85	IE2	90.9 91.5 91.0	7.1	2.4 2.0	138.3	1110
EDRE 180L 4	18.5	120	1475	34.5	36	0.85	IE2	91.4 92.0 91.6	7.1	2.5 2.1	152.1	1300

Table continued on next page.



Motor type	P_N kW	M_N Nm	n_N rpm	I_N A	I_N Voltage range ±5% A	cosφ	IE	$\eta_{50\%}$ $\eta_{75\%}$ $\eta_{100\%}$ %	I_A/I_N	M_A/M_N M_H/M_N	m kg	J_{Mot} 10^{-4} kgm^2
EDRE 200L 4	22	142	1480	41.5	43	0.82	IE2	92.0 92.8 92.6	7.8	2.5 2.0	258	2360
EDRE 225S 4	30	194	1480	55	59	0.83	IE2	93.1 93.5 93.1	7.5	2.4 2.0	287.7	2930
EDRE 225M 4	37	240	1480	69	71	0.84	IE2	93.3 93.5 93.0	9.0	2.5 2.0	315.5	3430
EDRE 225M 4	45	290	1480	86	89	0.81	IE2	92.8 93.3 92.9	7.3	2.6 2.1	315.5	3430

Category: ATEX 3GD, 400 V, temperature class: T3, max. surface temperature: 120 °C or 140 °C

Motor type	P_N kW	M_N Nm	n_N rpm	BE..	Z_0 BG BGE 1/h	M_B Nm	m_B kg	J_{Mot_BE} 10^{-4} kgm^2
EDRS 71S 4	0.25	1.7	1405	BE05	- 1900	3.50	10.2	6.2
EDRS 71M 4	0.37	2.55	1375	BE1	- 1900	5	11.7	8.4
EDRS 80S 4	0.55	3.7	1415	BE1	- 1800	7	14.5	16.4
EDRE 80M 4	0.75	5	1435	BE2	- 1800	10	18	25.9
EDRE 90M 4	1.1	7.4	1420	BE2	- 1600	14	23	40.1
EDRE 90L 4	1.5	10	1430	BE5	- 1600	20	27.3	49.7
EDRE 100M 4	2.2	14.7	1425	BE5	- 1600	28	31.9	62
EDRE 100LC 4	3	19.7	1455	BE5	- 760	40	37.1	95.8
EDRE 112M 4	3	19.7	1455	BE5	- 620	40	48.5	150.8
EDRE 132S 4	4	26	1460	BE11	- 560	55	60.8	200.5
EDRE 132M 4	5.5	36	1455	BE11	- 400	80	74.5	263.5
EDRE 160S 4	7.5	49	1460	BE20	- 220	110	106.2	421.1
EDRE 160M 4	9.2	60	1470	BE20	- 200	150	115.2	499.1
EDRE 180S 4	11	71	1470	BE20	- 180	150	153.9	955
EDRE 180M 4	15	97	1470	BE30	- 160	200	178.3	1245
EDRE 180L 4	18.5	120	1475	BE32	- 120	300	197.1	1530
EDRE 200L 4	22	142	1480	BE32	- 110	300	313	2590
EDRE 225S 4	30	194	1480	BE32	- 65	400	342.7	3160
EDRE 225M 4	37	240	1480	BE32	- 55	400	370.5	3660
EDRE 225M 4	45	290	1480	BE32	- 55	400	370.5	3660

11.3 Technical data for protection type nA, category II3GD (zones 2 and 22)

11.3.1 1500 rpm II3GD Ex nA IIT3/T120 °C (for variants with thermal class F: T 140 °C)

Motor type	P_N kW	n_N rpm	M_N Nm	I_N 400 V A	cosφ	$\eta_{75\%}$ $\eta_{100\%}$ %	I_A/I_N	M_A/M_N M_H/M_N	J_{Mot} 10^{-4} kgm²	m kg
DR63S4[1]	0.12	1380	0.83	0.39	0.69	-	3.3	2.4 2.2	3.6	6.1
DR63M4	0.18	1320	1.30	0.55	0.78	-	2.9	1.8 1.7	3.6	6.1
DR63L4	0.25	1300	1.83	0.68	0.81	-	2.8	1.8 1.7	4.4	6.7
DVE250M4	55	1475	356	102	0.83	94.0 93.8	6.0	2.7 2.0	6300	448
DVE280S4	75	1480	483	142	0.81	94.2 94.4	7.2	3.2 2.2	8925	520

1) Motors with lower rated power available on request

11.3.2 1000 rpm - S1 II3GD Ex nA IIT3/T120 °C (for variants with thermal class F: T 140 °C)

Motor type	P_N kW	n_N rpm	I_N 400 V A	cosφ	I_A/I_N	M_A/M_N M_H/M_N	J_{Mot} 10^{-4} kgm²	m kg
DR63S6[1]	0.09	900	0.38	0.64	2.2	1.8 1.6	5.4	6.0
DR63M6	0.12	900	0.58	0.65	2.1	1.8 1.7	5.4	6.0
DR63L6	0.18	870	0.78	0.70	2.2	1.6 1.5	5.4	6.6

1) Motors with lower rated power available on request

11.4 Technical data for protection type e, category II2G (zone 1)

11.4.1 1500 rpm - S1 II2G Ex e IIT3/T120 °C (for variants with thermal class F: T 140 °C)

Motor type	P_N kW	n_N rpm	I_N 219-241 V A	I_N 380-420 V A	cosφ	I_A/I_N	M_A/M_N M_H/M_N	J_{Mot} 10^{-4} kgm²	m kg	t_E 2
eDR63S4[1]	0.12	1380	0.71	0.71	0.7	3.4	2.4 2.1	3.6	6.1	60
eDR63M4	0.18	1335	1.03	1.03	0.75	3.1	2 1.7	3.6	6.1	40
eDR63L4	0.25	1315	1.3	1.3	0.8	3.2	1.9 1.6	4.4	6.7	30

1) Motors with lower rated power available on request

12 Appendix

12.1 Check list and inquiry form for explosion-proof drives

The following check list will help you to determine the necessary information for specifying the unit properties and unit categories of drives that are used in potentially explosive atmospheres.

12.1.1 Check list for explosion-proof drives

Step	Criterion	Condition	Decision	Continue with step
1	Potentially explosive mixture of air and	Gas		2
		Dust		7
For gas				
2	Drive will be installed in	Zone 1		3
		Zone 2		5
3	In the case of zone 1, the protection type of the motor is prescribed by the customer as	Flameproof enclosure (d)		4
		Increased safety (e)		5
4	In the case of motors with flameproof enclosure, design of the terminal box (TB)	TB with flameproof enclosure (d)		5
		TB with increased safety (e)		
5	Group specification	IIA		6
		IIB		
		IIC		
6	Temperature class (for gas/air mixtures)	T3		9
		T4		
		T5 (only with flameproof enclosure)		
		T6 (only with flameproof enclosure)		
For dust				
7	Drive will be installed in	Zone 21		8
		Zone 22 (flammable lint)		
		Zone 22 (non-conducting dust)		
		Zone 22 (conducting dust)		
8	Maximum permitted surface temperature (for dust/air mixtures)	T120 °C		9
		T140 °C		
		T150 °C (only for synchronous servo gearmotors)		
Company address				
9	Ms. / Mr. Company Department	Place, date		

Notes on the individual items:

Step 1

Categorization of the potentially explosive atmosphere into gas or dust.

Step 2

Zone categorization according to the installation location of the drive. The owner is responsible for the zone categorization according to directive 99/92/EC. Assistance can be obtained from the TÜV (German Technical Control Board), German Institutions for Statutory Accident Insurance and Prevention or expert offices:

- Zone 1: Potentially explosive gas mixtures are to be expected in normal operation.
- Zone 2: Potentially explosive gas mixtures are not to be expected in normal operation and if they occur at all, then only briefly.

Step 3

Protection types of the motor for use in zone 1.

- Flameproof enclosure (d)

  Potentially explosive mixtures can penetrate the equipment, the mixture inside the housing can be ignited → Design measures prevent ignition of the external atmosphere
- Increased safety (e)

  Potentially explosive mixtures can penetrate the equipment, no sources of combustion in or on the equipment → No ignition of the gas mixture.

Step 4

Design of the terminal box in the case of motors with flameproof enclosure with protection type

- Flameproof enclosure (d)

  When this terminal box version is selected, it is essential to take account of the permitted cable bushings (conduit system, cable glands, etc.). In addition, the thread type of the screw fitting (ISO or NPT) must be specified.
- Increased safety (e)

  When this terminal box version is selected, the cable entry design can be simpler. It is merely necessary to use an Ex-certified screw fitting.

Step 5

Group II is divided into 3 subgroups according to substance.

- All protection types

  Electrostatic requirements for plastic surfaces (including paint). As a consequence, the EX designation of protection types "e" and "nA" (previously II) is changed to IIA, IIB or IIC, depending on the plastic surfaces or paint used.
- Additionally for flameproof enclosure (d)

  Here, the subgroup determines the parameters of the ignition gap.

Refer to the relevant published tables, e.g. Nabert/Schön, "Kennzahlen brennbarer Gase und Dämpfe" ("Classifications of flammable gases and vapors"), Deutscher Eichverlag GmbH, D-38102 Braunschweig, Germany.

Step 6

Each of the temperature classes represents the assured maximum surface temperatures of the drive. For information about the temperature classes of the hazardous materials, refer to step 5:

- T3: Max. permitted surface temperature: 200 °C
- T4: Max. permitted surface temperature: 135 °C
- T5: Max. permitted surface temperature: 100 °C
- T6: Max. permitted surface temperature: 85 °C

Step 7

Zone categorization according to location where the drive is used. According to Directive 99/92/EC, the owner is responsible for the zone categorization. Assistance can be obtained from the TÜV (German Technical Control Board), German Institutions for Statutory Accident Insurance and Prevention or expert offices:

- Zone 21: Potentially explosive dust/air mixtures are to be expected in normal operation.
- Zone 22: Potentially explosive dust/air mixtures are not to be expected in normal operation and if they occur at all, then only briefly.

Group III is divided into 3 subgroups according to substance.

Group	Suitable for atmospheres with	Minimum degree of protection IP
IIIA	Inflammable fluffing	5x
IIIB	Non-conducting dust	5x
IIIC	Conducting dust	6x

Step 8

The maximum surface temperature of a drive in dust/air mixtures. The value is specified in °C. The maximum surface temperature of synchronous servo gearmotors is 150 °C.

For information about this, refer for example to: BIA-Report "Brenn- und Explosionskengrößen von Stäuben" (Report no. 3051 of BG Institute for Occupational Safety, "Combustion and explosion characteristics of dusts"), Hauptverband der gewerbl. Berufsgenossenschaften, D-53757 St. Augustin, Germany

12.1.2 Inquiry form for explosion-proof drives

Customer data																					
Company:															Customer no.:						
Department																					
Name															Tel.:						
Street / P.O. Box:															Fax:						
Zip code/city:															Email:						
Your contact person at SEW-EURODRIVE																					
Name:															Tel.:						
Technical office:															Fax:						
Technical data																					
Quantity:															Desired delivery date:						
Catalog designation:																					
Gear unit type																					
☐ Helical gear unit			☐ Parallel-shaft helical gear unit				☐ Helical-bevel gear unit				☐ Helical-worm gear unit				☐ SPIROPLAN®						
☐ Multi-stage gear unit																					
Power: kW							**Output speed**: rpm								**Output torque**: Nm						
Cycles/hour: c/h																					
☐ 1-shift operation							☐ 2-shift operation								☐ 3-shift operation						
☐ Regular							☐ Irregular								☐ Very irregular						
Mounting position														**Housing type**						
M1 ☐	M2 ☐	M3 ☐	M4 ☐	M5 ☐	M6 ☐	Pivoted ☐								☐ Foot-mounted		☐ Flange (bore)		☐ Flange (thread)			
														☐ Torque arm				Other:			
Shaft type																					
☐ Solid shaft with key							☐ Shrink disk								Shaft/hollow shaftØ mm						
☐ Hollow shaft with key							☐ TorqLoc®								FlangeØ mm						
Shaft position (for angular gear units)							**Terminal box position**								**Cable entry**						
☐ A		☐ B		☐ AB			☐ 0° (R)		☐ 90° (B)		☐ 180° (L)		☐ 270° (T)		☐ X		☐ 1		☐ 2		☐ 3
Degree of protection							**Thermal class**								**Surface/corrosion protection**						
☐ IP54		☐ IP55		☐ IP65			☐ 130 (B)		☐ 155 (F)						☐ KS		☐ OS1		☐ OS2		☐ OS3	☐ OS4
Line voltage: V																					
Line frequency:		☐ 50 Hz		☐ 60 Hz			Connection type:		☐ Δ				☐ Y								
☐ For inverter operation							Max. frequency: Hz								**Control range**:						
Typical application check																					
							Typical application								Deviations						
Supply voltage:							400 V, ± 5 %														
Installation:							Without line filter, choke, without sine filter														
Frequency inverter:							MOVITRAC® B, MOVIDRIVE® B														
Motor cable / permitted voltage drop:							100 m, max. 10 V														
Rated motor voltage:							230 V / 400 V, 50 Hz														
Required options															**Other options:**						
☐ Brake	Voltage: V						Braking torque: Nm														
☐ Manual brake release			☐ HR				☐ HF														
☐ Forced cooling fan							Forced cooling fan voltage: V														
☐ Motor protection: TF																					
☐ Encoder																					
☐ Inverter																					
☐ RAL 7031			☐ RAL																		
Special ambient conditions																					
Temperature fr. °C to °C							☐ Operation outdoors								☐ Installation altitude > 1000 m above msl						
Other ambient conditions:																					
Other:																					

12.2 Cable dimensions to AWG

AWG stands for **A**merican **W**ire **G**auge and refers to the size of the wires. This number specifies the diameter or cross section of a wire in code. This type of cable designation is usually only used in the USA. However, the designations can also be seen in catalogs or data sheets in Europe.

AWG designation	Cross section in mm^2
000000 (6/0)	185
00000 (5/0)	150
0000 (4/0)	120
000 (3/0)	90
00 (2/0)	70
0 (1/0)	50
1	50
2	35
3	25
4	25
5	16
6	16
7	10
8	10
9	6
10	6
11	4
12	4
13	2.5
14	2.5
15	2.5
16	1.5
16	1
18	1
19	0.75
20	0.5
21	0.5
22	0.34
23	0.25
24	0.2

13 Address Directory

Germany			
Headquarters **Production** **Sales**	**Bruchsal**	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 42 D-76646 Bruchsal P.O. Box Postfach 3023 • D-76642 Bruchsal	Tel. +49 7251 75-0 Fax +49 7251 75-1970 http://www.sew-eurodrive.de sew@sew-eurodrive.de
Production / Industrial Gears	**Bruchsal**	SEW-EURODRIVE GmbH & Co KG Christian-Pähr-Str.10 D-76646 Bruchsal	Tel. +49 7251 75-0 Fax +49 7251 75-2970
Production	**Graben**	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 1 D-76676 Graben-Neudorf P.O. Box Postfach 1220 • D-76671 Graben-Neudorf	Tel. +49 7251 75-0 Fax +49 7251 75-2970
	Östringen	SEW-EURODRIVE GmbH & Co KG, Werk Östringen Franz-Gurk-Straße 2 D-76684 Östringen	Tel. +49 7253 9254-0 Fax +49 7253 9254-90 oestringen@sew-eurodrive.de
Service Competence Center	**Central**	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 1 D-76676 Graben-Neudorf	Tel. +49 7251 75-1710 Fax +49 7251 75-1711 sc-mitte@sew-eurodrive.de
	North	SEW-EURODRIVE GmbH & Co KG Alte Ricklinger Straße 40-42 D-30823 Garbsen (near Hannover)	Tel. +49 5137 8798-30 Fax +49 5137 8798-55 sc-nord@sew-eurodrive.de
	East	SEW-EURODRIVE GmbH & Co KG Dänkritzer Weg 1 D-08393 Meerane (near Zwickau)	Tel. +49 3764 7606-0 Fax +49 3764 7606-30 sc-ost@sew-eurodrive.de
	South	SEW-EURODRIVE GmbH & Co KG Domagkstraße 5 D-85551 Kirchheim (near München)	Tel. +49 89 909552-10 Fax +49 89 909552-50 sc-sued@sew-eurodrive.de
	West	SEW-EURODRIVE GmbH & Co KG Siemensstraße 1 D-40764 Langenfeld (near Düsseldorf)	Tel. +49 2173 8507-30 Fax +49 2173 8507-55 sc-west@sew-eurodrive.de
	Electronics	SEW-EURODRIVE GmbH & Co KG Ernst-Blickle-Straße 42 D-76646 Bruchsal	Tel. +49 7251 75-1780 Fax +49 7251 75-1769 sc-elektronik@sew-eurodrive.de
	Drive Service Hotline / 24 Hour Service		+49 180 5 SEWHELP +49 180 5 7394357 14 euro cents/min on the German landline network. Max 42 euro cents/min from a German mobile network. Prices for mobile and international calls may differ.
Technical Offices	**Augsburg**	SEW-EURODRIVE GmbH & Co KG August-Wessels-Straße 27 D-86156 Augsburg	Tel. +49 821 22779-10 Fax +49 821 22779-50 tb-augsburg@sew-eurodrive.de
	Berlin	SEW-EURODRIVE GmbH & Co KG Lilienthalstraße 3a D-12529 Schönefeld	Tel. +49 306331131-30 Fax +49 306331131-36 tb-berlin@sew-eurodrive.de
	Bodensee	SEW-EURODRIVE GmbH & Co KG Burgbergring 91 D-88662 Überlingen	Tel. +49 7551 9226-30 Fax +49 7551 9226-56 tb-bodensee@sew-eurodrive.de
	Bremen	SEW-EURODRIVE GmbH & Co KG Bornstr.19 ... 22 D-28195 Bremen	Tel. +49 421 33918-10 Fax +49 421 33918-22 tb-bremen@sew-eurodrive.de

Germany			
	Dortmund	SEW-EURODRIVE GmbH & Co KG Hildastraße 8 D-44145 Dortmund	Tel. +49 231 229028-10 Fax +49 231 229028-20 tb-dortmund@sew-eurodrive.de
	Dresden	SEW-EURODRIVE GmbH & Co KG Hauptstraße 32 D-01445 Radebeul	Tel. +49 351 26338-0 Fax +49 351 26338-38 tb-dresden@sew-eurodrive.de
	Erfurt	SEW-EURODRIVE GmbH & Co KG Dubliner Straße 12 D-99091 Erfurt	Tel. +49 361 21709-70 Fax +49 361 21709-79 tb-erfurt@sew-eurodrive.de
	Güstrow	SEW-EURODRIVE GmbH & Co KG Am Gewerbegrund 3 D-18273 Güstrow P.O. Box Postfach 1216 • D-18262 Güstrow	Tel. +49 3843 8557-80 Fax +49 3843 8557-88 tb-guestrow@sew-eurodrive.de
	Hamburg	SEW-EURODRIVE GmbH & Co KG Bramfelder Straße 119 D-22305 Hamburg	Tel. +49 40 298109-60 Fax +49 40 298109-70 tb-hamburg@sew-eurodrive.de
	Hannover/Garbsen	SEW-EURODRIVE GmbH & Co KG Alte Ricklinger Str.40-42 D-30823 Garbsen P.O. Box Postfach 1104 53 • D-30804 Garbsen	Tel. +49 5137 8798-10 Fax +49 5137 8798-50 tb-hannover@sew-eurodrive.de
	Heilbronn	SEW-EURODRIVE GmbH & Co KG Zeppelinstraße 7 D-74357 Bönnigheim	Tel. +49 7143 8738-0 Fax +49 7143 8738-25 tb-heilbronn@sew-eurodrive.de
	Herford	SEW-EURODRIVE GmbH & Co KG Radewiger Straße 21 D-32052 Herford P.O. Box Postfach 4108 • D-32025 Herford	Tel. +49 5221 9141-0 Fax +49 5221 9141-20 tb-herford@sew-eurodrive.de
	Karlsruhe	SEW-EURODRIVE GmbH & Co KG Ettlinger Weg 2 D-76467 Bietigheim P.O. Box Postfach 43 • D-76463 Bietigheim	Tel. +49 7245 9190-10 Fax +49 7245 9190-20 tb-karlsruhe@sew-eurodrive.de
	Kassel	SEW-EURODRIVE GmbH & Co KG Lange Straße 14 D-34253 Lohfelden	Tel. +49 561 95144-80 Fax +49 561 95144-90 tb-kassel@sew-eurodrive.de
	Koblenz	SEW-EURODRIVE GmbH & Co KG Bahnstraße 17a D-56743 Mendig	Tel. +49 2652 9713-30 Fax +49 2652 9713-40 tb-koblenz@sew-eurodrive.de
	Lahr	SEW-EURODRIVE GmbH & Co KG Europastraße 3/1 D-77933 Lahr / Schwarzwald	Tel. +49 7821 90999-60 Fax +49 7821 90999-79 tb-lahr@sew-eurodrive.de
	Langenfeld	SEW-EURODRIVE GmbH & Co KG Siemensstraße 1 D-40764 Langenfeld	Tel. +49 2173 8507-10 Fax +49 2173 8507-50 tb-langenfeld@sew-eurodrive.de
	Magdeburg	SEW-EURODRIVE GmbH & Co KG Breiteweg 53 D-39179 Barleben	Tel. +49 39203 7577-1 Fax +49 39203 7577-9 tb-magdeburg@sew-eurodrive.de
	Mannheim	SEW-EURODRIVE GmbH & Co KG Besselstraße 26 D-68219 Mannheim	Tel. +49 621 71683-10 Fax +49 621 71683-22 tb-mannheim@sew-eurodrive.de
	München	SEW-EURODRIVE GmbH & Co KG Domagkstraße 5 D-85551 Kirchheim	Tel. +49 89 90955-110 Fax +49 89 90955-150 tb-muenchen@sew-eurodrive.de

Germany			
	Münster	SEW-EURODRIVE GmbH & Co KG Hafenplatz 4 D-48155 Münster	Tel. +49 251 41475-11 Fax +49 251 41475-50 tb-muenster@sew-eurodrive.de
	Nürnberg	SEW-EURODRIVE GmbH & Co KG Plattenäckerweg 6 D-90455 Nürnberg	Tel. +49 911 98884-50 Fax +49 911 98884-60 tb-nuernberg@sew-eurodrive.de
	Regensburg	SEW-EURODRIVE GmbH & Co KG Im Gewerbepark A15 D-93059 Regensburg	Tel. +49 941 46668-68 Fax +49 941 46668-66 tb-regensburg@sew-eurodrive.de
	Rhein-Main	SEW-EURODRIVE GmbH & Co KG Niederstedter Weg 5 D-61348 Bad Homburg	Tel. +49 6172 9617-0 Fax +49 6172 9617-50 tb-rheinmain@sew-eurodrive.de
	Stuttgart	SEW-EURODRIVE GmbH & Co KG Friedrich-List-Straße 46 D-70771 Leinfelden-Echterdingen	Tel. +49 711 16072-0 Fax +49 711 16072-72 tb-stuttgart@sew-eurodrive.de
	Ulm	SEW-EURODRIVE GmbH & Co KG Dieselstraße 14 D-89160 Dornstadt	Tel. +49 7348 9885-0 Fax +49 7348 9885-90 tb-ulm@sew-eurodrive.de
	Würzburg	SEW-EURODRIVE GmbH & Co KG Nürnbergerstraße 118 D-97076 Würzburg-Lengfeld	Tel. +49 931 27886-60 Fax +49 931 27886-66 tb-wuerzburg@sew-eurodrive.de
	Zwickau / Meerane	SEW-EURODRIVE GmbH & Co KG Dänkritzer Weg1 D-08393 Meerane	Tel. +49 3764 7606-0 Fax +49 3764 7606-20 tb-zwickau@sew-eurodrive.de

France			
Production **Sales** **Service**	**Haguenau**	SEW-USOCOME 48-54 route de Soufflenheim B. P. 20185 F-67506 Haguenau Cedex	Tel. +33 3 88 73 67 00 Fax +33 3 88 73 66 00 http://www.usocome.com sew@usocome.com
Production	**Forbach**	SEW-USOCOME Zone industrielle Technopôle Forbach Sud B. P. 30269 F-57604 Forbach Cedex	Tel. +33 3 87 29 38 00
Assembly **Sales** **Service**	**Bordeaux**	SEW-USOCOME Parc d'activités de Magellan 62 avenue de Magellan - B. P. 182 F-33607 Pessac Cedex	Tel. +33 5 57 26 39 00 Fax +33 5 57 26 39 09
	Lyon	SEW-USOCOME Parc d'affaires Roosevelt Rue Jacques Tati F-69120 Vaulx en Velin	Tel. +33 4 72 15 37 00 Fax +33 4 72 15 37 15
	Nantes	SEW-USOCOME Parc d'activités de la forêt 4 rue des Fontenelles F-44140 Le Bignon	Tel. +33 2 40 78 42 00 Fax +33 2 40 78 42 20
	Paris	SEW-USOCOME Zone industrielle 2 rue Denis Papin F-77390 Verneuil l'Etang	Tel. +33 1 64 42 40 80 Fax +33 1 64 42 40 88
Technical Offices	**Alsace**	SEW-USOCOME 1 rue Auguste Gasser F-68360 Soultz	Tel. +33 3 89 74 51 62 Fax +33 3 89 76 58 71

France		
Aquitaine / Charentes	SEW-USOCOME Aux Cardinals F-47270 Saint-Pierre-de-Clairac	Tel. +33 5 53 48 78 19 Fax +33 5 53 48 78 20
Auvergne / Limousin	SEW-USOCOME Farges F-19600 Chasteaux	Tel. +33 5 55 20 12 10 Fax +33 5 55 20 12 11
Lower Normandy	SEW-USOCOME 5 rue de la Limare F-14250 Brouay	Tel. +33 2 31 37 92 86 Fax +33 2 31 74 68 15
Burgundy	SEW-USOCOME 10 rue de la poste F-71350 Saint Loup Géanges	Tel. +33 3 85 49 92 18 Fax +33 3 85 49 92 19
Brittany	SEW-USOCOME Parc d'activités de la forêt 4 rue des Fontenelles F-44140 Le Bignon	Tel. +33 2 40 78 42 04 Fax +33 2 40 78 42 20
Centre / Poitou	SEW-USOCOME Parc d'activités de la forêt 4 rue des Fontenelles F-44140 Le Bignon	Tel. +33 2 40 78 42 11 Fax +33 2 40 78 42 20
Champagne-Ardenne	SEW-USOCOME 6 place des Harkis F-10000 Troyes	Tel. +33 3 25 79 63 24 Fax +33 3 25 79 63 25
Franche-Comté	SEW-USOCOME Chemin des saules F-25870 Venise	Tel. +33 3 81 60 20 47 Fax +33 3 81 87 75 93
Île-de-France East / Aisne	SEW-USOCOME	Tel. +33 1 64 17 02 47 Fax +33 1 64 17 66 49
Île-de-France North / Picardy	SEW-USOCOME 25bis rue Kléber F-92300 Levallois Perret	Tel. +33 1 41 05 92 74 Fax +33 1 41 05 92 75
Île-de-France South	SEW-USOCOME 6 chemin des bergers Lieu-dit Marchais F-91410 Roinville sous Dourdan	Tel. +33 1 60 81 10 56 Fax +33 1 60 81 10 57
Lorraine / Alsace North	SEW-USOCOME 1 rue de la forêt F-54250 Champigneulles	Tel. +33 3 83 96 28 04 Fax +33 3 83 96 28 07
Midi-Pyrénées / Roussillon	SEW-USOCOME 179 route de Grazac F-31190 Caujac	Tel. +33 5 61 08 15 85 Fax +33 5 61 08 16 44
Nord-Pas-de-Calais	SEW-USOCOME 209 route d'Hesdigneul F-62360 Hesdin l'Abbé	Tel. +33 3 21 10 86 86 Fax +33 3 21 10 86 87
Paris / Île-de-France West	SEW-USOCOME 42 avenue Jean Jaurès F-78580 Maule	Tel. +33 1 30 90 89 86 Fax +33 1 30 90 93 15
Pays de la Loire	SEW-USOCOME Parc d'activités de la forêt 4 rue des Fontenelles F-44140 Le Bignon	Tel. +33 2 40 78 42 03 Fax +33 2 40 78 42 20
Provence-Alpes-Côte d'Azur	SEW-USOCOME Résidence Les Hespérides Bât. B2 67 boulevard des Alpes F-13012 Marseille	Tel. +33 4 91 18 00 11 Fax +33 4 91 18 00 12

France			
	Rhône-Alpes East	SEW-USOCOME Montée de la Garenne F-26750 Génissieux	Tel. +33 4 75 05 65 95 Fax +33 4 75 05 65 96
	Rhône-Alpes North	SEW-USOCOME Parc d'affaires Roosevelt Rue Jacques Tati F-69120 Vaulx en Velin	Tel. +33 4 72 15 37 03 Fax +33 4 72 15 37 15
	Rhône-Alpes West	SEW-USOCOME Parc d'affaires Roosevelt Rue Jacques Tati F-69120 Vaulx en Velin	Tel. +33 4 72 15 37 04 Fax +33 4 72 15 37 15

Algeria			
Sales	**Algiers**	REDUCOM Sarl 16, rue des Frères Zaghnoune Bellevue 16200 El Harrach Alger	Tel. +213 21 8214-91 Fax +213 21 8222-84 info@reducom-dz.com http://www.reducom-dz.com

Argentina			
Assembly **Sales**	**Buenos Aires**	SEW EURODRIVE ARGENTINA S.A. Centro Industrial Garin, Lote 35 Ruta Panamericana Km 37,5 1619 Garin	Tel. +54 3327 4572-84 Fax +54 3327 4572-21 sewar@sew-eurodrive.com.ar http://www.sew-eurodrive.com.ar

Australia			
Assembly **Sales** **Service**	**Melbourne**	SEW-EURODRIVE PTY. LTD. 27 Beverage Drive Tullamarine, Victoria 3043	Tel. +61 3 9933-1000 Fax +61 3 9933-1003 http://www.sew-eurodrive.com.au enquires@sew-eurodrive.com.au
	Sydney	SEW-EURODRIVE PTY. LTD. 9, Sleigh Place, Wetherill Park New South Wales, 2164	Tel. +61 2 9725-9900 Fax +61 2 9725-9905 enquires@sew-eurodrive.com.au
Sales **Service**	**Adelaide**	SEW-EURODRIVE PTY. LTD. 9C Park Way Mawson Lakes, SA 5095	Tel. +61 8 8161 4000 Fax +61 8 8161 4002 enquires@sew-eurodrive.com.au
	Brisbane	SEW-EURODRIVE PTY.LTD. 1 /34 Collinsvale St Rocklea, Queensland, 4106	Tel. +61 7 3276 5100 Fax +61 7 3276 5102 enquires@sew-eurodrive.com.au
	Perth	SEW-EURODRIVE PTY. LTD. 10 Colin Jamieson Drive Welshpool, WA 6106	Tel. +61 8 9251-4900 Fax +61 8 9251-4903 enquires@sew-eurodrive.com.au
Sales	**Townsville**	SEW-EURODRIVE PTY. LTD. 12 Leyland Street Garbutt, QLD 4814	Tel. +61 7 4779 4333 Fax +61 7 4779 5333 enquires@sew-eurodrive.com.au

Austria			
Assembly **Sales** **Service**	**Wien**	SEW-EURODRIVE Ges.m.b.H. Richard-Strauss-Strasse 24 A-1230 Wien	Tel. +43 1 617 55 00-0 Fax +43 1 617 55 00-30 http://www.sew-eurodrive.at sew@sew-eurodrive.at
Technical Offices	**Linz**	SEW-EURODRIVE Ges.m.b.H. Reuchlinstr. 6/3 A-4020 Linz	Tel. +43 732 655 109-0 Fax +43 732 655 109-20 tb-linz@sew-eurodrive.at
	Graz	SEW-EURODRIVE Ges.m.b.H. Grabenstraße 231 A-8045 Graz	Tel. +43 316 685 756-0 Fax +43 316 685 755 tb-graz@sew-eurodrive.at

Austria			
	Dornbirn	SEW-EURODRIVE Ges.m.b.H. Lustenauerstraße 27/1 A-6850 Dornbirn	Tel. +43 5572 3725 99-0 Fax +43 5572 3725 99-20 tb-dornbirn@sew-eurodrive.at

Bangladesh			
Sales	**Bangladesh**	SEW-EURODRIVE INDIA PRIVATE LIMITED Genetic Udayanchal, House-96 (6th Floor), Road-23/A, Block-B, Banani, Dhaka-1213, Bangladesh	Mobile +88 01729 097309 salesdhaka@seweurodrivebangla-desh.com

Belarus			
Sales	**Minsk**	SEW-EURODRIVE BY RybalkoStr. 26 BY-220033 Minsk	Tel.+375 17 298 47 56 / 298 47 58 Fax +375 17 298 47 54 http://www.sew.by sales@sew.by

Belgium			
Assembly **Sales** **Service**	**Brussels**	**SEW-EURODRIVE n.v./s.a.** Researchpark Haasrode 1060 Evenementenlaan 7 BE-3001 Leuven	Tel. +32 16 386-311 Fax +32 16 386-336 http://www.sew-eurodrive.be info@sew-eurodrive.be
Service Compe-tence Center	**Industrial Gears**	**SEW-EURODRIVE n.v./s.a.** Rue de Parc Industriel, 31 BE-6900 Marche-en-Famenne	Tel. +32 84 219-878 Fax +32 84 219-879 http://www.sew-eurodrive.be service-wallonie@sew-eurodrive.be

Brazil			
Production **Sales** **Service**	**São Paulo**	SEW-EURODRIVE Brasil Ltda. Avenida Amâncio Gaiolli, 152 - Rodovia Presi-dente Dutra Km 208 Guarulhos - 07251-250 - SP SAT - SEW ATENDE - 0800 7700496	Tel. +55 11 2489-9133 Fax +55 11 2480-3328 http://www.sew-eurodrive.com.br sew@sew.com.br

Bulgaria			
Sales	**Sofia**	BEVER-DRIVE GmbH Bogdanovetz Str.1 BG-1606 Sofia	Tel. +359 2 9151160 Fax +359 2 9151166 bever@bever.bg

Cameroon			
Sales	**Douala**	Electro-Services Rue Drouot Akwa B.P. 2024 Douala	Tel. +237 33 431137 Fax +237 33 431137 electrojemba@yahoo.fr

Canada			
Assembly **Sales** **Service**	**Toronto**	SEW-EURODRIVE CO. OF CANADA LTD. 210 Walker Drive Bramalea, ON L6T 3W1	Tel. +1 905 791-1553 Fax +1 905 791-2999 http://www.sew-eurodrive.ca l.watson@sew-eurodrive.ca
	Vancouver	SEW-EURODRIVE CO. OF CANADA LTD. Tilbury Industrial Park 7188 Honeyman Street Delta, BC V4G 1G1	Tel. +1 604 946-5535 Fax +1 604 946-2513 b.wake@sew-eurodrive.ca
	Montreal	SEW-EURODRIVE CO. OF CANADA LTD. 2555 Rue Leger Lasalle, PQ H8N 2V9	Tel. +1 514 367-1124 Fax +1 514 367-3677 a.peluso@sew-eurodrive.ca
	Additional addresses for service in Canada provided on request!		

Chile			
Assembly **Sales** **Service**	**Santiago**	SEW-EURODRIVE CHILE LTDA. Las Encinas 1295 Parque Industrial Valle Grande LAMPA RCH-Santiago de Chile P.O. Box Casilla 23 Correo Quilicura - Santiago - Chile	Tel. +56 2 75770-00 Fax +56 2 75770-01 http://www.sew-eurodrive.cl ventas@sew-eurodrive.cl

China			
Production **Assembly** **Sales** **Service**	**Tianjin**	SEW-EURODRIVE (Tianjin) Co., Ltd. No. 46, 7th Avenue, TEDA Tianjin 300457	Tel. +86 22 25322612 Fax +86 22 25323273 info@sew-eurodrive.cn http://www.sew-eurodrive.com.cn
Assembly **Sales** **Service**	**Suzhou**	SEW-EURODRIVE (Suzhou) Co., Ltd. 333, Suhong Middle Road Suzhou Industrial Park Jiangsu Province, 215021	Tel. +86 512 62581781 Fax +86 512 62581783 suzhou@sew-eurodrive.cn
	Guangzhou	SEW-EURODRIVE (Guangzhou) Co., Ltd. No. 9, JunDa Road East Section of GETDD Guangzhou 510530	Tel. +86 20 82267890 Fax +86 20 82267922 guangzhou@sew-eurodrive.cn
	Shenyang	SEW-EURODRIVE (Shenyang) Co., Ltd. 10A-2, 6th Road Shenyang Economic Technological Development Area Shenyang, 110141	Tel. +86 24 25382538 Fax +86 24 25382580 shenyang@sew-eurodrive.cn
	Wuhan	SEW-EURODRIVE (Wuhan) Co., Ltd. 10A-2, 6th Road No. 59, the 4th Quanli Road, WEDA 430056 Wuhan	Tel. +86 27 84478388 Fax +86 27 84478389 wuhan@sew-eurodrive.cn
	Xi'An	SEW-EURODRIVE (Xi'An) Co., Ltd. No. 12 Jinye 2nd Road Xi'An High-Technology Industrial Development Zone Xi'An 710065	Tel. +86 29 68686262 Fax +86 29 68686311 xian@sew-eurodrive.cn

Colombia			
Assembly **Sales** **Service**	**Bogotá**	SEW-EURODRIVE COLOMBIA LTDA. Calle 22 No. 132-60 Bodega 6, Manzana B Santafé de Bogotá	Tel. +57 1 54750-50 Fax +57 1 54750-44 http://www.sew-eurodrive.com.co sewcol@sew-eurodrive.com.co

Croatia			
Sales **Service**	**Zagreb**	KOMPEKS d. o. o. Zeleni dol 10 HR 10 000 Zagreb	Tel. +385 1 4613-158 Fax +385 1 4613-158 kompeks@inet.hr

Czech Republic			
Sales **Assembly** **Service**	**Prague**	SEW-EURODRIVE CZ s.r.o. Lužná 591 16000 Praha 6 - Vokovice	Tel. +420 255 709 601 Fax +420 220 121 237 http://www.sew-eurodrive.cz sew@sew-eurodrive.cz
	Drive Service Hotline / 24 Hour Service	HOT-LINE +420 800 739 739 (800 SEW SEW)	**Servis:** Tel. +420 255 709 632 Fax +420 235 358 218 servis@sew-eurodrive.cz

Czech Republic			
Assembly **Service**	**Plzeň**	SEW-EURODRIVE CZ s.r.o. Areal KRPA a.s. Zahradni 173/2 326 00 Plzeň	Tel. +420 378 775 320 Fax +420 377 970 710 sew@sew-eurodrive.cz
Technical Offices	**Brno**	SEW-EURODRIVE CZ s.r.o. Křenová 52 60200 Brno	Tel. +420 543 254 174 Fax +420 543 256 845 radek.chmela@sew-eurodrive.cz
	Hradec Králové	SEW-EURODRIVE CZ s.r.o. Čechova 498 50202 Hradec Králové	Tel. +420 495 510 141 Fax +420 495 521 313 miroslav.moravec@sew-eurodrive.cz
	Ostrava	SEW-EURODRIVE CZ s.r.o. Studentská 6202/17 708 00 Ostrava-Poruba	Tel. +420 597 329 044 jan.kurs@sew-eurodrive.cz
	Klatovy	SEW-EURODRIVE CZ s.r.o. Vídeňská 841 33901 Klatovy	Tel. +420 376 331 634 Fax +420 376 331 634 viktor.kubernat@sew-eurodrive.cz
Service	**Horní Moštěnice**	SEW-EURODRIVE CZ s.r.o. Nám.Dr.M.Tyrše 14/64 751 17 Horní Moštěnice	Tel. +420 581 224 374 Fax +420 581 224 374 servis@sew-eurodrive.cz

Denmark			
Assembly **Sales** **Service**	**Copenhagen**	SEW-EURODRIVEA/S Geminivej 28-30 DK-2670 Greve	Tel. +45 43 9585-00 Fax +45 43 9585-09 http://www.sew-eurodrive.dk sew@sew-eurodrive.dk

Egypt			
Sales **Service**	**Cairo**	Copam Egypt for Engineering & Agencies 33 El Hegaz ST, Heliopolis, Cairo	Tel. +20 2 22566-299 +1 23143088 Fax +20 2 22594-757 http://www.copam-egypt.com/ copam@datum.com.eg

Estonia			
Sales	**Tallin**	ALAS-KUUL AS Reti tee 4 EE-75301 Peetri küla, Rae vald, Harjumaa	Tel. +372 6593230 Fax +372 6593231 veiko.soots@alas-kuul.ee

Finland			
Assembly **Sales** **Service**	**Lahti**	SEW-EURODRIVE OY Vesimäentie 4 FIN-15860 Hollola 2	Tel. +358 201 589-300 Fax +358 3 780-6211 http://www.sew-eurodrive.fi sew@sew.fi
Technical Offices	**Helsinki**	SEW-EURODRIVE OY Luutnantintie 5 FIN-00410 Helsinki	Tel. +358 201 589-300 Fax + 358 9 5666-311 sew@sew.fi
	Vaasa	SEW-EURODRIVE OY Hietasaarenkatu 18 FIN-65100 Vaasa	Tel. +358 201 589-300 Fax +358 6 3127-470 sew@sew.fi
	Kuopio	SEW-EURODRIVE OY Viestikatu 3 FIN-70600 Kuopio	Tel. +358 201 589-300 sew@sew.fi
	Rovaniemi	SEW-EURODRIVE OY Valtakatu 4 A FIN-96100 Rovaniemi	Tel. +358 201 589-300 Fax +358 201 589-239 sew@sew.fi

Finland			
Production **Assembly**	**Karkkila**	SEW Industrial Gears Oy Valurinkatu 6, PL 8 FI-03600 Karkkila, 03601 Karkkila	Tel. +358 201 589-300 Fax +358 201 589-310 sew@sew.fi http://www.sew-eurodrive.fi

Gabon			
Sales	**Libreville**	ESG Electro Services Gabun Feu Rouge Lalala 1889 Libreville Gabun	Tel. +241 741059 Fax +241 741059 esg_services@yahoo.fr

Great Britain			
Assembly **Sales** **Service**	**Normanton**	SEW-EURODRIVE Ltd. Beckbridge Industrial Estate Normanton West Yorkshire WF6 1QR	Tel. +44 1924 893-855 Fax +44 1924 893-702 http://www.sew-eurodrive.co.uk info@sew-eurodrive.co.uk
	Drive Service Hotline / 24 Hour Service		Tel. 01924 896911
Service Competence Center	**Southern England**	SEW-EURODRIVE Ltd. Unit 41 Easter Park Benyon Road Silchester Reading Berkshire RG7 2PQ	Tel. +44 1189 701-699 Fax +44 1189 701-021
Technical Offices	**Midlands**	SEW-EURODRIVE Ltd. 5 Sugar Brook court Aston Road Bromsgrove Worcs. B60 3EX	Tel. +44 1527 877-319 Fax +44 1527 575-245
	Scotland	SEW-EURODRIVE Ltd. No 37 Enterprise House Springkerse Business Park Stirling FK7 7UF	Tel. +44 17 8647-8730 Fax +44 17 8645-0223

Greece			
Sales	**Athens**	Christ. Boznos & Son S.A. 12, K. Mavromichali Street P.O. Box 80136 GR-18545 Piraeus	Tel. +30 2 1042 251-34 Fax +30 2 1042 251-59 http://www.boznos.gr info@boznos.gr
Technical Office	**Thessaloniki**	Christ. Boznos & Son S.A. Asklipiou 26 562 24 Evosmos, Thessaloniki	Tel. +30 2 310 7054-00 Fax +30 2 310 7055-15 info@boznos.gr

Hong Kong			
Assembly **Sales** **Service**	**Hong Kong**	SEW-EURODRIVE LTD. Unit No. 801-806, 8th Floor Hong Leong Industrial Complex No. 4, Wang Kwong Road Kowloon, Hong Kong	Tel. +852 36902200 Fax +852 36902211 contact@sew-eurodrive.hk

Hungary			
Sales **Service**	**Budapest**	SEW-EURODRIVE Kft. H-1037 Budapest Kunigunda u. 18	Tel. +36 1 437 06-58 Fax +36 1 437 06-50 http://www.sew-eurodrive.hu office@sew-eurodrive.hu

Iceland			
Sales	**Reykjavik**	VARMA & VELAVERK EHF Dalshrauni 5 IS-220 Hafnarjördur	Tel. +354 585 1070 Fax +354 585)1071 varmaverk@varmaverk.is http://www.varmaverk.is

India			
Registered Office **Assembly** **Sales** **Service**	**Vadodara**	SEW-EURODRIVE India Private Limited Plot No. 4, GIDC POR Ramangamdi • Vadodara - 391 243 Gujarat	Tel. +91 265 3045200, +91 265 2831086 Fax +91 265 3045300, +91 265 2831087 http://www.seweurodriveindia.com salesvadodara@seweurodrivein-dia.com
Assembly **Sales** **Service**	**Chennai**	SEW-EURODRIVE India Private Limited Plot No. K3/1, Sipcot Industrial Park Phase II Mambakkam Village Sriperumbudur - 602105 Kancheepuram Dist, Tamil Nadu	Tel. +91 44 37188888 Fax +91 44 37188811 saleschennai@seweurodriveindia.com
Technical Offices	**Ahmedabad**	SEW-EURODRIVE India Private Limited 306, Shaan office complex, Behind Sakar-IV, Ellisebridge, Ashram Road Ahmedabad – Gujarat	Tel. +91 79 40072067/68 Fax +91 79 40072069 salesahmedabad@seweurodrivein-dia.com
	Bangladesh	SEW-EURODRIVE INDIA PRIVATE LIMITED Genetic Udayanchal, House-96 (6th Floor), Road-23/A, Block-B, Banani, Dhaka-1213, Bangladesh	Mobile +88 01729 097309 salesdhaka@seweurodrivebangla-desh.com
	Bangalore	SEW-EURODRIVE India Private Limited 308, Prestige Centre Point 7, Edward Road Bengaluru - 560052 - Karnataka	Tel. +91 80 22266565 Fax +91 80 22266569 salesbangalore@seweurodrivein-dia.com
	Chennai	SEW-EURODRIVE India Private Limited 2nd Floor, Josmans Complex, No. 5, McNichols Road, Chetpet Chennai - 600031 - Tamil Nadu	Tel. +91 44 42849813 Fax +91 44 42849816 saleschennai@seweurodriveindia.com
	Coimbatore	SEW-EURODRIVE INDIA PRIVATE LIMITED 687/2, SRI SAKTHIVEL TOWERS (NEAR DEEPAM HOSPITAL) TRICHY ROAD, RAMANATHAPURAM COIMBATORE - 641 045.Tamilnadu	Tel. +91 422 2322420 Fax +91 422 2323988 salescoimbatore@seweurodrivein-dia.com
	Cuttack	SEW-EURODRIVE India Private Limited Plot No.- 1764, Nuasahi, Nayapalli Bhubaneswar-12 Orissa	Tel. +91 9937446333 salescuttack@seweurodriveindia.com
	Hyderabad	SEW-EURODRIVE India Private Limited 408, 4th Floor, Meridian Place Green Park Road Amerpeet Hyderabad - 500016 - Andhra Pradesh	Tel. +91 40 23414698 Fax +91 40 23413884 saleshyderabad@seweurodrivein-dia.com

India			
	Jamshedpur	SEW-EURODRIVE India Private Limited Flat No.: B/2, B.S. Apartment Road No.: 4, Contractor's area, Bistupur Jamshedpur 831 001 - Chhattisgarh	Tel. +91 9934123671 salesjamshedpur@seweurodrivein-dia.com
	Kolkata	SEW EURODRIVE India Private Limited 2nd floor, Room No. 35 Chowringhee Court 55, Chowringhee Road Kolkata - 700 071 - West Bengal	Tel. +91 33 22827457 Fax +91 33 22894204 saleskolkata@seweurodriveindia.com
	Lucknow	SEW-EURODRIVE India Private Limited 69, Shiv Vihar Colony Vikas Nagar-5 Lucknow 226022 - Uttar Pradesh	Tel. +91 9793627333 saleslucknow@seweurodriveindia.com
	Mumbai	SEW-EURODRIVE India Private Limited 312 A, 3rd Floor, Acme Plaza, J.B. Nagar, Andheri Kurla Road, Andheri (E) Mumbai - 400059 - Maharashtra	Tel. +91 22 28348440 Fax +91 22 28217858 salesmumbai@seweurodriveindia.com
	Nashik	SEW-EURODRIVE India Private Limited 107, "YOG" Bunglow, Mahatama Nagar, Trimbak Road, Nashik, Maharashtra – 422 007	Tel. +91 9665752978 salesnashik@seweurodriveindia.com
	New Delhi	SEW-EURODRIVE India Private Limited 1008, 10th Floor, 12th Level 'Westend Mall' Tower Plot, District Centre Adjacent Hotel Hilton Janak Puri, New Delhi – 110058	Tel. +91 11 25544111 Fax +91 11 25544113 salesdelhi@seweurodriveindia.com
	Pune	SEW-EURODRIVE India Private Limited Lunawat Prism 4th floor, S. No. 148, Neena Co-Operative Housing Society, Paud Road, Pune 411038 - Maharashtra	Tel. +91 20 25380730 / 735 Fax +91 20 25380721 salespune@seweurodriveindia.com
	Raipur	SEW-EURODRIVE India Private Limited A-42, Ashoka Millenium Complex, Ring Road-1, Raipur 492 001 - Chhattisgarh	Tel. +91 771 4090765 Fax +91 771 4090765 salesraipur@seweurodriveindia.com
	Ranchi	SEW-EURODRIVE India Private Limited Flat No : A - 101, Krishna Shree Apartment, Anantpur, P.O. Doranda – Ranchi 834002	Tel. +91 8294630772 salesranchi@seweurodriveindia.com
	Tiruchirappalli	SEW-EURODRIVE India Private Limited A-106,Trichy Towers, Chandrasekarapuram, Salai Road, Trichy – 620018.	Mobile +91 95009 88081 salestrichy@seweurodriveindia.com
	Vadodara	SEW-EURODRIVE India Private Limited Unit No. 301, Savorite Bldg, Plot No. 143, Vinayak Society, off old Padra Road, Vadodara - 390 007. Gujarat	Tel. +91 265 2325258 Fax +91 265 2325259 salesvadodara@seweurodrivein-dia.com
	Vijayawada	SEW-EURODRIVE India Private Limited Door No: 40-5/3-10A, Shyam Nagar, Tikkle Road, NGO's Colony, Vijayawada, A.P. – 520010	Tel. +91 9989501748 Fax +91 866-2475157 salesvijayawada@seweurodrivein-dia.com

Indonesia			
Sales	**Jakarta**	PT. Cahaya Sukses Abadi Komplek Rukan Puri Mutiara Blok A no 99, Sunter Jakarta 14350	Tel: +62 21 65310599 Fax: +62 21 65310600 csajkt@cbn.net.id
		PT. Agrindo Putra Lestari Jl.Prof.DR.Latumenten no27/A Jakarta 11330	Tel: +62 21 63855588 Fax: +62 21 63853789 aplindo@indosat.net.id
		PT. Sentratek Adiprestasi Jl. Industri Raya I, Komp. Gunung Sahari 8 Block B-3 Gunung Sahari Utara, Sawah B Jakarta 10720	Tel: +62 21 6398122 Fax: +62 21 6499264 adm_samit@yahoo.co.id roberto_samit@yahoo.co.id
	Medan	PT. Serumpun Indah Lestari Pulau Solor no. 8, Kawasan Industri Medan II Medan 20252	Tel. +62 61 687 1221 Fax +62 61 6871429 / +62 61 6871458 / +62 61 30008041 sil@serumpunindah.com serumpunindah@yahoo.com
	Surabaya	PT. TRIAGRI JAYA ABADI Jl. Sukosemolo No. 63, Galaxi Bumi Permai G6 No. 11 Surabaya 60122	Tel: +62 31 5990128 Fax: +62 31 5962666 triagri@indosat.net.id
		CV. Multi Mas Jl. Raden Saleh 43A Kav. 18 Surabaya 60174	Tel: +62 31 5458589 / +62 31 5317224 Fax: +62 31 5317220 / +62 31 5994629 sianhwa@sby.centrin.net.id

Ireland			
Sales **Service**	**Dublin**	Alperton Engineering Ltd. 48 Moyle Road Dublin Industrial Estate Glasnevin, Dublin 11	Tel. +353 1 830-6277 Fax +353 1 830-6458 info@alperton.ie http://www.alperton.ie

Israel			
Sales	**Tel-Aviv**	Liraz Handasa Ltd. Ahofer Str 34B / 228 58858 Holon	Tel. +972 3 5599511 Fax +972 3 5599512 http://www.liraz-handasa.co.il office@liraz-handasa.co.il

Italy			
Assembly **Sales** **Service**	**Solaro**	SEW-EURODRIVE di R. Blickle & Co.s.a.s. Via Bernini,14 I-20020 Solaro (Milano)	Tel. +39 02 96 9801 Fax +39 02 96 799781 http://www.sew-eurodrive.it sewit@sew-eurodrive.it
Technical Offices	**Bologna**	SEW-EURODRIVE di R. Blickle & Co.s.a.s. Via della Grafica, 47 I-40064 Ozzano dell'Emilia (Bo)	Tel. +39 051 65-23-801 Fax +39 051 796-595
	Caserta	SEW-EURODRIVE di R. Blickle & Co.s.a.s. Viale Carlo III Km. 23,300 I-81020 S. Nicola la Strada (Caserta)	Tel. +39 0823 219011 Fax +39 0823 421414
	Milan	SEW-EURODRIVE di R. Blickle & Co.s.a.s. Via Bernini,14 I-20020 Solaro (Milano)	Tel. +39 02 96 980229 Fax +39 02 96 799781
	Pescara	SEW-EURODRIVE di R. Blickle & Co.s.a.s. Viale Europa,132 I-65010 Villa Raspa di Spoltore (PE)	Tel. +39 085 41-59-427 Fax +39 085 41-59-643
	Torino	SEW-EURODRIVE di R. Blickle & Co.s.a.s. Filiale Torino c.so Unione Sovietica 612/15 - int. C I-10135 Torino	Tel. +39 011 3473780 Fax +39 011 3473783

Italy			
	Verona	SEW-EURODRIVE di R. Blickle & Co.s.a.s. Via P. Sgulmero, 27/A I-37132 Verona	Tel. +39 045 89-239-11 Fax +39 045 97-6079

Ivory Coast			
Sales	**Abidjan**	SICA Société Industrielle & Commerciale pour l'Afrique 165, Boulevard de Marseille 26 BP 1173 Abidjan 26	Tel. +225 21 25 79 44 Fax +225 21 25 88 28 sicamot@aviso.ci

Japan			
Assembly **Sales** **Service**	**Iwata**	SEW-EURODRIVE JAPAN CO., LTD 250-1, Shimoman-no, Iwata Shizuoka 438-0818	Tel. +81 538 373811 Fax +81 538 373855 http://www.sew-eurodrive.co.jp sewjapan@sew-eurodrive.co.jp
Technical Offices	**Fukuoka**	SEW-EURODRIVE JAPAN CO., LTD. C-go, 5th-floor, Yakuin-Hiruzu-Bldg. 1-5-11, Yakuin, Chuo-ku Fukuoka, 810-0022	Tel. +81 92 713-6955 Fax +81 92 713-6860 sewkyushu@jasmine.ocn.ne.jp
	Osaka	SEW-EURODRIVE JAPAN CO., LTD. Higobashi Shimizu Bldg. 10th flor 1-3-7 Tosabori, Nishi-ku Osaka, 550-0001	Tel. +81 6 6444--8330 Fax +81 6 6444--8338 sewosaka@crocus.ocn.ne.jp
	Tokyo	SEW-EURODRIVE JAPAN CO., LTD. Omarimon Yusen Bldg. 13th floor 3-23-5 Nishinbashi, Minato-ku Tokyo 105-0003	Tel. +81 3 3239-0469 Fax +81 3 3239-0943 sewtokyo@basil.ocn.ne.jp

Kazakhstan			
Sales	**Almaty**	ТОО "СЕВ-ЕВРОДРАЙВ" пр.Райымбека, 348 050061 г. Алматы Республика Казахстан	Тел. +7 (727) 334 1880 Факс +7 (727) 334 1881 http://www.sew-eurodrive.kz sew@sew-eurodrive.kz

Latvia			
Sales	**Riga**	SIA Alas-Kuul Katlakalna 11C LV-1073 Riga	Tel. +371 6 7139253 Fax +371 6 7139386 http://www.alas-kuul.com info@alas-kuul.com

Lebanon			
Sales Lebanon	**Beirut**	Gabriel Acar & Fils sarl B. P. 80484 Bourj Hammoud, Beirut	Tel. +961 1 510 532 Fax +961 1 494 971 ssacar@inco.com.lb
Sales Jordan / Kuwait / Saudi Arabia / Syria	**Beirut**	Middle East Drives S.A.L. (offshore) Sin El Fil. B. P. 55-378 Beirut	Tel. +961 1 494 786 Fax +961 1 494 971 info@medrives.com http://www.medrives.com

Lithuania			
Sales	**Alytus**	UAB Irseva Statybininku 106C LT-63431 Alytus	Tel. +370 315 79204 Fax +370 315 56175 irmantas@irseva.lt http://www.sew-eurodrive.lt

Luxembourg			
Assembly **Sales** **Service**	**Brussels**	**SEW-EURODRIVE n.v./s.a.** Researchpark Haasrode 1060 Evenementenlaan 7 BE-3001 Leuven	Tel. +32 16 386-311 Fax +32 16 386-336 http://www.sew-eurodrive.lu info@sew-eurodrive.be

Macedonia			
Sales	**Skopje**	Boznos DOOEL Dime Anicin 2A/7A 1000 Skopje	Tel. +389 23256553 Fax +389 23256554 http://www.boznos.mk

Malaysia			
Assembly **Sales** **Service**	**Johor**	SEW-EURODRIVE SDN BHD No. 95, Jalan Seroja 39, Taman Johor Jaya 81000 Johor Bahru, Johor West Malaysia	Tel. +60 7 3549409 Fax +60 7 3541404 sales@sew-eurodrive.com.my
Technical Offices	**Kota Kinabalu**	SEW-EURODRIVE Sdn Bhd (Kota Kinabalu Branch) Lot No. 2,1st Floor, Inanam Baru Phase III, Miles 5.1 /2, Jalan Tuaran, Inanam 89350 Kota Kinabalu Sabah, Malaysia	Tel. +60 88 424792 Fax +60 88 424807
	Kuala Lumpur	SEW-EURODRIVE Sdn. Bhd. No. 2, Jalan Anggerik Mokara 31/46 Kota Kemuning Seksyen 31 40460 Shah Alam Selangor Darul Ehsan	Tel. +60 3 5229633 Fax +60 3 5229622 sewsa@sew-eurodrive.com.my
	Kuching	SEW-EURODRIVE Sdn. Bhd. Lot 268, Section 9 KTLD Lorong 9, Jalan Satok 93400 Kuching, Sarawak East Malaysia	Tel. +60 82 232380 Fax +60 82 242380
	Penang	SEW-EURODRIVE Sdn. Bhd. No. 38, Jalan Bawal Kimsar Garden 13700 Prai, Penang	Tel. +60 4 3999349 Fax +60 4 3999348 sewpg@sew-eurodrive.com.my

Mauritania			
Sales	**Zouérat**	AFRICOM - SARL En Face Marché Dumez P.B. 88 Zouérate	Tel. +222 45 44 50 19 Fax +222 45 44 03 14 contact@africom-sarl.com

Mexico			
Assembly **Sales** **Service**	**Quéretaro**	SEW-EURODRIVE MEXICO SA DE CV SEM-981118-M93 Tequisquiapan No. 102 Parque Industrial Quéretaro C.P. 76220 Quéretaro, México	Tel. +52 442 1030-300 Fax +52 442 1030-301 http://www.sew-eurodrive.com.mx scmexico@seweurodrive.com.mx

Morocco			
Sales **Service**	**Mohammedia**	SEW EURODRIVE SARL Z.I. Sud Ouest - Lot 28 2ème étage Mohammedia 28810	Tel. +212 523 32 27 80/81 Fax +212 523 32 27 89 sew@sew-eurodrive.ma http://www.sew-eurodrive.ma

Netherlands			
Assembly **Sales** **Service**	**Rotterdam**	SEW-EURODRIVE B.V. Industrieweg 175 NL-3044 AS Rotterdam Postbus 10085 NL-3004 AB Rotterdam	Tel. +31 10 4463-700 Fax +31 10 4155-552 Service: 0800-SEWHELP http://www.sew-eurodrive.nl info@sew-eurodrive.nl

New Zealand			
Assembly **Sales** **Service**	**Auckland**	SEW-EURODRIVE NEW ZEALAND LTD. P.O. Box 58-428 82 Greenmount drive East Tamaki Auckland	Tel. +64 9 2745627 Fax +64 9 2740165 http://www.sew-eurodrive.co.nz sales@sew-eurodrive.co.nz
	Christchurch	SEW-EURODRIVE NEW ZEALAND LTD. 10 Settlers Crescent, Ferrymead Christchurch	Tel. +64 3 384-6251 Fax +64 3 384-6455 sales@sew-eurodrive.co.nz
Technical Offices	**Palmerston North**	SEW-EURODRIVE NEW ZEALAND LTD. C/-Grant Shearman, RD 5, Aronui Road Palmerston North	Tel. +64 6 355-2165 Fax +64 6 355-2316 sales@sew-eurodrive.co.nz

Norway			
Assembly **Sales** **Service**	**Moss**	SEW-EURODRIVE A/S Solgaard skog 71 N-1599 Moss	Tel. +47 69 24 10 20 Fax +47 69 24 10 40 http://www.sew-eurodrive.no sew@sew-eurodrive.no

Pakistan			
Sales	**Karachi**	Industrial Power Drives Al-Fatah Chamber A/3, 1st Floor Central Commercial Area, Sultan Ahmed Shah Road, Block 7/8, Karachi	Tel. +92 21 452 9369 Fax +92-21-454 7365 seweurodrive@cyber.net.pk

Peru			
Assembly **Sales** **Service**	**Lima**	SEW DEL PERU MOTORES REDUCTORES S.A.C. Los Calderos, 120-124 Urbanizacion Industrial Vulcano, ATE, Lima	Tel. +51 1 3495280 Fax +51 1 3493002 http://www.sew-eurodrive.com.pe sewperu@sew-eurodrive.com.pe

Philippines			
Sales	**Luzon**	Totaltech Corporation 5081-B C&L Mansion Filmore Ave. Cor. Fahrenheit St. 1235 Makati City	Tel: +63 2 551-9265 / +63 2 551-9271 / +63 2 551-9378 Fax: +63 2 551-9273 totaltek@info.com.ph
	All Areas	P.T. Cerna Corporation 2166 Primo Rivera St., Brgy. La Paz, Makati City	Tel: +63 2 890 2862 / +63 2 890 2813 Fax: +63 2 890 2802 electrical_controls@ptcerna.com

Poland			
Assembly **Sales** **Service**	**Lodz**	SEW-EURODRIVE Polska Sp.z.o.o. ul. Techniczna 5 PL-92-518 Łódź	Tel. +48 42 676 53 00 Fax +48 42 676 53 49 http://www.sew-eurodrive.pl sew@sew-eurodrive.pl
	Service	Tel. +48 42 6765332 / 42 6765343 Fax +48 42 6765346	Linia serwisowa Hotline 24H Tel. +48 602 739 739 (+48 602 SEW SEW) serwis@sew-eurodrive.pl
Technical Office	**Tychy**	SEW-EURODRIVE Polska Sp.z.o.o. ul. Fabryczna 5 PL-43-100 Tychy	Tel. +48 32 32 32 610 Fax +48 32 32 32 648

Poland			
	Bydgoszcz	SEW-EURODRIVE Polska Sp.z.o.o. ul. Fordońska 246 PL-85-959 Bydgoszcz	Tel. +48 52 3606590 Fax +48 52 3606591
	Poznan	SEW-EURODRIVE Polska Sp.z.o.o. ul. Romana Maya 1 PL-61-371 Poznań	Tel. +48 61 6465500 Fax +48 61 6465519
	Radom	SEW-EURODRIVE Polska Sp.z.o.o. ul. Słowackiego 84 PL-26-600 Radom	Tel. +48 48 365 40 50 Fax +48 48 365 40 52

Portugal			
Assembly **Sales** **Service**	**Coimbra**	SEW-EURODRIVE, LDA. Apartado 15 P-3050-901 Mealhada	Tel. +351 231 20 9670 Fax +351 231 20 3685 http://www.sew-eurodrive.pt infosew@sew-eurodrive.pt
Service Competence Center	**Lisboa**	SEW-EURODRIVE, LDA. Núcleo Empresarial I de São Julião do Tojal Rua de Entremuros, 54 Fracção I P-2660-533 São Julião do Tojal	Tel. +351 21 958-0198 Fax +351 21 958-0245 esc.lisboa@sew-eurodrive.pt
Technical Office	**Porto**	SEW-EURODRIVE, LDA. Av. 25 de Abril, 68 4440-502 Valongo	Tel. +351 229 350 383 Fax +351 229 350 384 Tel. +351 9 32559110 esc.porto@sew-eurodrive.pt

Romania			
Sales **Service**	**Bucharest**	Sialco Trading SRL str. Madrid nr.4 011785 Bucuresti	Tel. +40 21 230-1328 Fax +40 21 230-7170 sialco@sialco.ro

Russia			
Assembly **Sales** **Service**	**St. Petersburg**	ZAO SEW-EURODRIVE P.O. Box 36 RUS-195220 St. Petersburg	Tel. +7 812 3332522 +7 812 5357142 Fax +7 812 3332523 http://www.sew-eurodrive.ru sew@sew-eurodrive.ru
Technical Office	**Yekaterinburg**	ZAO SEW-EURODRIVE Kominterna Str. 16 Office 614 RUS-620078 Ekaterinburg	Tel. +7 343 310 3977 Fax +7 343 310 3978 eso@sew-eurodrive.ru
	Irkutsk	ZAO SEW-EURODRIVE 5-Armii Str., 31 RUS-664011 Irkutsk	Tel. +7 3952 25 5880 Fax +7 3952 25 5881 iso@sew-eurodrive.ru
	Moscow	ZAO SEW-EURODRIVE Malaja Semjonowskaja Str. д. 9, корпус 2 RUS-107023 Moskau	Tel. +7 495 9337090 Fax +7 495 9337094 mso@sew-eurodrive.ru
	Novosibirsk	ZAO SEW-EURODRIVE pr. K Marksa 30 RUS-630087 Novosibirsk	Tel. +7 383 3350200 Fax +7 383 3462544 nso@sew-eurodrive.ru
	Perm	ZAO SEW-EURODRIVE Stakhanovskaya str., 45 Office 512 RUS-614066 Perm	Tel. +7 342 2219494 Fax +7 342 2219444 pso@sew-eurodrive.ru
	Togliatti	ZAO SEW-EURODRIVE Sportivnaya Str. 4B, office 2 Samarskaya obl. RUS-445057 Togliatti	Tel. +7 8482 710529 Fax +7 8482 810590

Senegal			
Sales	**Dakar**	SENEMECA Mécanique Générale Km 8, Route de Rufisque B.P. 3251, Dakar	Tel. +221 338 494 770 Fax +221 338 494 771 senemeca@sentoo.sn http://www.senemeca.com

Serbia			
Sales	**Beograd**	DIPAR d.o.o. Ustanicka 128a PC Košum, IV sprat SRB-11000 Beograd	Tel. +381 11 347 3244 / +381 11 288 0393 Fax +381 11 347 1337 office@dipar.rs

Singapore			
Assembly **Sales** **Service**	**Singapore**	SEW-EURODRIVE PTE. LTD. No 9, Tuas Drive 2 Jurong Industrial Estate Singapore 638644	Tel. +65 68621701 Fax +65 68612827 http://www.sew-eurodrive.com.sg sewsingapore@sew-eurodrive.com

Slovakia			
Sales	**Bratislava**	SEW-Eurodrive SK s.r.o. Rybničná 40 SK-831 06 Bratislava	Tel. +421 2 33595 202 Fax +421 2 33595 200 sew@sew-eurodrive.sk http://www.sew-eurodrive.sk
	Žilina	SEW-Eurodrive SK s.r.o. Industry Park - PChZ ulica M.R.Štefánika 71 SK-010 01 Žilina	Tel. +421 41 700 2513 Fax +421 41 700 2514 sew@sew-eurodrive.sk
	Banská Bystrica	SEW-Eurodrive SK s.r.o. Rudlovská cesta 85 SK-974 11 Banská Bystrica	Tel. +421 48 414 6564 Fax +421 48 414 6566 sew@sew-eurodrive.sk
	Košice	SEW-Eurodrive SK s.r.o. Slovenská ulica 26 SK-040 01 Košice	Tel. +421 55 671 2245 Fax +421 55 671 2254 sew@sew-eurodrive.sk

Slovenia			
Sales **Service**	**Celje**	Pakman - Pogonska Tehnika d.o.o. UI. XIV. divizije 14 SLO - 3000 Celje	Tel. +386 3 490 83-20 Fax +386 3 490 83-21 pakman@siol.net

South Africa			
Assembly **Sales** **Service**	**Johannesburg**	SEW-EURODRIVE (PROPRIETARY) LIMITED Eurodrive House Cnr. Adcock Ingram and Aerodrome Roads Aeroton Ext. 2 Johannesburg 2013 P.O.Box 90004 Bertsham 2013	Tel. +27 11 248-7000 Fax +27 11 494-3104 http://www.sew.co.za info@sew.co.za
	Cape Town	SEW-EURODRIVE (PROPRIETARY) LIMITED Rainbow Park Cnr. Racecourse & Omuramba Road Montague Gardens Cape Town P.O.Box 36556 Chempet 7442 Cape Town	Tel. +27 21 552-9820 Fax +27 21 552-9830 Telex 576 062 cfoster@sew.co.za

South Africa			
	Durban	SEW-EURODRIVE (PROPRIETARY) LIMITED 2 Monaco Place Pinetown Durban P.O. Box 10433, Ashwood 3605	Tel. +27 31 700-3451 Fax +27 31 700-3847 cdejager@sew.co.za
	Nelspruit	SEW-EURODRIVE (PTY) LTD. 7 Christie Crescent Vintonia P.O.Box 1942 Nelspruit 1200	Tel. +27 13 752-8007 Fax +27 13 752-8008 robermeyer@sew.co.za
Technical Offices	**Port Elizabeth**	SEW-EURODRIVE PTY LTD. 8 Ruan Access Park Old Cape Road Greenbushes 6000 Port Elizabeth	Tel. +27 41 3722246 Fax +27 41 3722247 dtait@sew.co.za
	Richards Bay	SEW-EURODRIVE PTY LTD. 103 Bulion Blvd Richards Bay P.O. Box 458 Richards Bay, 3900	Tel. +27 35 797-3805 Fax +27 35 797-3819 jswart@sew.co.za

South Korea			
Assembly **Sales** **Service**	**Ansan**	SEW-EURODRIVE KOREA CO., LTD. B 601-4, Banweol Industrial Estate #1048-4, Shingil-Dong, Danwon-Gu, Ansan-City, Kyunggi-Do Zip 425-839	Tel. +82 31 492-8051 Fax +82 31 492-8056 http://www.sew-korea.co.kr master.korea@sew-eurodrive.com
	Busan	SEW-EURODRIVE KOREA Co., Ltd. No. 1720 - 11, Songjeong - dong Gangseo-ku Busan 618-270	Tel. +82 51 832-0204 Fax +82 51 832-0230 master@sew-korea.co.kr
Technical Offices	**Daegu**	SEW-EURODRIVE KOREA Co., Ltd. No.1108 Sungan officetel 87-36, Duryu 2-dong, Dalseo-ku Daegu 704-712	Tel. +82 53 650-7111 Fax +82 53 650-7112
	Daejeon	SEW-EURODRIVE KOREA Co., Ltd. No. 1502, Hongin officetel 536-9, Bongmyung-dong, Yusung-ku Daejeon 305-301	Tel. +82 42 828-6461 Fax +82 42 828-6463
	Gwangju	SEW-EURODRIVE KOREA Co., Ltd. 4fl., Dae-Myeong B/D 96-16 Unam-dong, Buk-ku Kwangju 500-170	Tel. +82 62 511-9172 Fax +82 62 511-9174
	Seoul	SEW-EURODRIVE KOREA Co., Ltd. No.504 Sunkyung officetel 106-4 Kuro 6-dong, Kuro-ku Seoul 152-054	Tel. +82 2 862-8051 Fax +82 2 862-8199

Spain			
Assembly **Sales** **Service**	**Bilbao**	SEW-EURODRIVE ESPAÑA, S.L. Parque Tecnológico, Edificio, 302 E-48170 Zamudio (Vizcaya)	Tel. +34 94 43184-70 Fax +34 94 43184-71 http://www.sew-eurodrive.es sew.spain@sew-eurodrive.es
Technical Offices	**Barcelona**	Delegación Barcelona Avda. Francesc Macià, 60 – Planta 16, porta 1 Eix Macià – “Torre Milenium” E-08208 Sabadell (Barcelona)	Tel. +34 93 7162200 Fax +34 93 7233007

Spain			
	Madrid	Delegación Madrid Gran Via. 48-2° A-D E-28220 Majadahonda (Madrid)	Tel. +34 91 6342250 Fax +34 91 6340899
	Seville	MEB Pólogono Calonge, C/A Nave 2 - C E-41.077 Sevilla	Tel. +34 954 356 361 Fax +34 954 356 274 mebsa.sevilla@mebsa.com
	Valencia	MEB Músico Andreu i Piqueres, 4 E-46.900 Torrente (Valencia)	Tel. +34 961 565 493 Fax +34 961 566 688 mebsa.valencia@mebsa.com

Sri Lanka			
Sales	**Colombo**	SM International (Pte) Ltd 254, Galle Raod Colombo 4, Sri Lanka	Tel. +94 1 2584887 Fax +94 1 2582981

Sweden			
Assembly **Sales** **Service**	**Jönköping**	SEW-EURODRIVE AB Gnejsvägen 6-8 S-55303 Jönköping Box 3100 S-55003 Jönköping	Tel. +46 36 3442 00 Fax +46 36 3442 80 http://www.sew-eurodrive.se jonkoping@sew.se
Sales	**Göteborg**	SEW-EURODRIVE AB Gustaf Werners gata 8 S-42132 Västra Frölunda	Tel. +46 31 70968 80 Fax +46 31 70968 93 goteborg@sew.se
	Stockholm	SEW-EURODRIVE AB Björkholmsvägen 10 S-14146 Huddinge	Tel. +46 8 44986 80 Fax +46 8 44986 93 stockholm@sew.se
	Malmö	SEW-EURODRIVE AB Borrgatan 5 S-21124 Malmö	Tel. +46 40 68064 80 Fax +46 40 68064 93 malmo@sew.se
	Skellefteå	SEW-EURODRIVE AB Trädgårdsgatan 8 S-93131 Skellefteå	Tel. +46 910 7153 80 Fax +46 910 7153 93 skelleftea@sew.se

Switzerland			
Assembly **Sales** **Service**	**Basel**	Alfred Imhof A.G. Jurastrasse 10 CH-4142 Münchenstein bei Basel	Tel. +41 61 417 1717 Fax +41 61 417 1700 http://www.imhof-sew.ch info@imhof-sew.ch
Technical Offices	**Rhaetian Switzerland**	André Gerber Es Perreyres CH-1436 Chamblon	Tel. +41 24 445 3850 Fax +41 24 445 4887
	Bern / Solothurn	Rudolf Bühler Muntersweg 5 CH-2540 Grenchen	Tel. +41 32 652 2339 Fax +41 32 652 2331
	Central Switzerland, Aargau	Armin Pfister Stierenweid CH-4950 Huttwill, BE	Tel. +41 62 962 54 55 Fax +41 62 962 54 56
	Zürich, Ticino	Gian-Michele Muletta Fischerstrasse 61 CH-8132 Egg bei Zürich	Tel. +41 44 994 81 15 Fax +41 44 994 81 16
	Bodensee and East Switzerland	Markus Künzle Eichweg 4 CH-9403 Goldach	Tel. +41 71 845 2808 Fax +41 71 845 2809

Taiwan (R.O.C.)			
Sales	**Nan Tou**	Ting Shou Trading Co., Ltd. No. 55 Kung Yeh N. Road Industrial District Nan Tou 540	Tel. +886 49 255353 Fax +886 49 257878
	Taipei	Ting Shou Trading Co., Ltd. 6F-3, No. 267, Sec. 2 Tung Hwa South Road, Taipei	Tel. +886 2 27383535 Fax +886 2 27368268 Telex 27 245 sewtwn@ms63.hinet.net

Thailand			
Assembly **Sales** **Service**	**Chonburi**	SEW-EURODRIVE (Thailand) Ltd. 700/456, Moo.7, Donhuaroh Muang Chonburi 20000	Tel. +66 38 454281 Fax +66 38 454288 sewthailand@sew-eurodrive.com
Technical Offices	**Bangkok**	SEW-EURODRIVE (Thailand) Ltd. 6th floor, TPS Building 1023, Phattanakarn Road Suanluang Bangkok,10250	Tel. +66 2 7178149 Fax +66 2 7178152 sewthailand@sew-eurodrive.com
	Hat Yai	SEW-EURODRIVE (Thailand) Ltd. Hadyai Country Home Condominium 59/101 Soi.17/1 Rachas-Utid Road. Hadyai, Songkhla 90110	Tel. +66 74 359441 Fax +66 74 359442 sewthailand@sew-eurodrive.com
	Khon Kaen	SEW-EURODRIVE (Thailand) Ltd. 4th Floor, Kaow-U-HA MOTOR Bldg, 359/2, Mitraphab Road. Muang District Khonkaen 40000	Tel. +66 43 225745 Fax +66 43 324871 sew-thailand@sew-eurodrive.com

Tunisia			
Sales	**Tunis**	T. M.S. Technic Marketing Service Zone Industrielle Mghira 2 Lot No. 39 2082 Fouchana	Tel. +216 79 40 88 77 Fax +216 79 40 88 66 http://www.tms.com.tn tms@tms.com.tn

Turkey			
Assembly **Sales** **Service**	**Istanbul**	SEW-EURODRIVE Hareket Sistemleri Sanayi Ticaret Limited Şirketi Gebze Organize Sanayi Bölgesi 400.Sokak No:401 TR-41480 Gebze KOCAELİ	Tel. +90-262-9991000-04 Fax +90-262-9991009 http://www.sew-eurodrive.com.tr sew@sew-eurodrive.com.tr
Technical Offices	**Adana**	SEW-EURODRIVE Hareket Sistemleri San. ve Tic. Ltd. Sti. Kizilay Caddesi 8 Sokak No 6 Daðtekin Is Merkezi Kat 4 Daire 2 TR-01170 SEYHAN / ADANA	Tel. +90 322 359 94 15 Fax +90 322 359 94 16
	Ankara	SEW-EURODRIVE Hareket Sistemleri San. ve Tic. Ltd. Sti. Özcelik Is Merkezi, 14. Sok, No. 4/42 TR-06370 Ostim/Ankara	Tel. +90 312 385 33 90 Fax +90 312 385 32 58
	Bursa	SEW-EURODRIVE Hareket Sistemleri San. ve Tic. Ltd. Sti. Üçevler Mah. Bayraktepe Sok. Akay İş Merkezi Kat:3 No: 7/6 TR Nilüfer/Bursa	Tel. +90 224 443 45 60 Fax +90 224 443 45 58

Turkey			
	Izmir	SEW-EURODRIVE Hareket Sistemleri San. ve Tic. Ltd. Sti. 1203/11 Sok. No. 4/613 Hasan Atli Is Merkezi TR-35110 Yenisehir-İzmir	Tel. +90 232 469 62 64 Fax +90 232 433 61 05

Ukraine			
Assembly **Sales** **Service**	**Dnipropetrovsk**	SEW-EURODRIVE Str. Rabochaja 23-B, Office 409 49008 Dnepropetrovsk	Tel. +380 56 370 3211 Fax +380 56 372 2078 http://www.sew-eurodrive.ua sew@sew-eurodrive.ua
Sales	**Kiev**	SEW-EURODRIVE GmbH S. Oleynika str. 21 02068 Kiev	Tel. +380 44 503 95 77 Fax +380 44 503 95 78 kso@sew-eurodrive.ua
	Donetsk	SEW-EURODRIVE GmbH 25th anniversary of RKKA av. 1-B, of. 805 Donetsk 83000	Tel. +380 62 38 80 545 Fax +380 62 38 80 533 dso@sew-eurodrive.ua

United Arab Emirates			
Sales **Service**	**Sharjah**	Copam Middle East (FZC) Sharjah Airport International Free Zone P.O. Box 120709 Sharjah	Tel. +971 6 5578-488 Fax +971 6 5578-499 copam_me@eim.ae

Uruguay			
Sales	**Montevideo**	SEW-EURODRIVE Uruguay, S. A. Jose Serrato 3569 Esqina Corumbe CP 12000 Montevideo	Tel. +598 2 21181-89 Fax +598 2 21181-89 sewuy@sew-eurodrive.com.uy

USA			
Production **Assembly** **Sales** **Service**	**Southeast Region**	SEW-EURODRIVE INC. 1295 Old Spartanburg Highway P.O. Box 518 Lyman, S.C. 29365	Tel. +1 864 439-7537 Fax Sales +1 864 439-7830 Fax Manufacturing +1 864 439-9948 Fax Assembly +1 864 439-0566 Fax Confidential/HR +1 864 949-5557 http://www.seweurodrive.com cslyman@seweurodrive.com
Assembly **Sales** **Service**	**Northeast Region**	SEW-EURODRIVE INC. Pureland Ind. Complex 2107 High Hill Road, P.O. Box 481 Bridgeport, New Jersey 08014	Tel. +1 856 467-2277 Fax +1 856 845-3179 csbridgeport@seweurodrive.com
	Midwest Region	SEW-EURODRIVE INC. 2001 West Main Street Troy, Ohio 45373	Tel. +1 937 335-0036 Fax +1 937 332-0038 cstroy@seweurodrive.com
	Southwest Region	SEW-EURODRIVE INC. 3950 Platinum Way Dallas, Texas 75237	Tel. +1 214 330-4824 Fax +1 214 330-4724 csdallas@seweurodrive.com
	Western Region	SEW-EURODRIVE INC. 30599 San Antonio St. Hayward, CA 94544	Tel. +1 510 487-3560 Fax +1 510 487-6433 cshayward@seweurodrive.com
	Additional addresses for service in the USA provided on request!		

Venezuela			
Assembly **Sales** **Service**	**Valencia**	SEW-EURODRIVE Venezuela S.A. Av. Norte Sur No. 3, Galpon 84-319 Zona Industrial Municipal Norte Valencia, Estado Carabobo	Tel. +58 241 832-9804 Fax +58 241 838-6275 http://www.sew-eurodrive.com.ve ventas@sew-eurodrive.com.ve sewfinanzas@cantv.net

Vietnam			
Sales	**Ho Chi Minh City**	**All sectors except for ports, mining and offshore:** Nam Trung Co., Ltd 250 Binh Duong Avenue, Thu Dau Mot Town, Binh Duong Province HCM office: 91 Tran Minh Quyen Street District 10, Ho Chi Minh City	Tel. +84 8 8301026 Fax +84 8 8392223 namtrungco@hcm.vnn.vn truongtantam@namtrung.com.vn khanh-nguyen@namtrung.com.vn
		Ports, mining and offshore: DUC VIET INT LTD Industrial Trading and Engineering Services A75/6B/12 Bach Dang Street, Ward 02, Tan Binh District, 70000 Ho Chi Minh City	Tel. +84 8 62969 609 Fax +84 8 62938 842 totien@ducvietint.com
	Hanoi	Nam Trung Co., Ltd R.205B Tung Duc Building 22 Lang ha Street Dong Da District, Hanoi City	Tel. +84 4 37730342 Fax +84 4 37762445 namtrunghn@hn.vnn.vn

Index

A

Abbreviation key 45
Adapter for installation of IEC motors 114
Adapter for installation of NEMA motors 117
Adapter for mounting servomotors 119
Additional documentation 8
Additional features 33
Ambient temperature
  R, F, K, S, W gear units 22

B

Bearing greases 96
Breather valves 129

C

Categories and protection types 17
  Gear units 19
  Motors 17
  Category 1 – Particularly high safety 17
  Category 2 – High safety 17
  Category 3 – Normal safety 17
Categories, division into 15
Churning losses 51, 63
Connection options 33
Connection variants 33
Copyright 9
Cover, fixed 126

D

Declaration of conformity 16
Design and operating notes 90
Design provisions 12
Design variants
  Helical gearmotors 34
  Helical-bevel gearmotors 37
  Helical-worm gearmotors 39
  Parallel-shaft helical gearmotors 35
  SPIROPLAN® gearmotors 41
Designations for explosion protection 10
Dimension sheets
  Helical gearmotors 423
Directive 94/9/EC, marking of the units 21
Distinguishing potentially explosive atmospheres ..15
Division into categories 15
Division into zones 14
Drive and gear unit selection data 45
Drive engineering to EU Directive 94/9/EC 12

E

Efficiency of R, F, K, S, W gear units 50
Encoder 32
Equipment Protection Level (EPL) 10
Explosion-proof equipment 15
Explosion-proof motors 33
Explosive atmospheres 15
Extended storage 26
Eyebolts 129

F

Fill quantities
  R, F, K, S, W gear units 92
Fixed cover 126
Flange contours
  FAF.., KAF.., SAF.. and WAF.. 125
  FF.., KF.., SF.. and WF 124
  RF.. and R..F 123

G

Gear unit
  Extended storage 26
Gear unit mounting 122
Gear unit with flange block shaft 106
Gear unit with hollow shaft
  Special motor/gear unit combinations 104
Gear units with hollow shaft 104
Gearmotor dimensions 131
Guideline 94/9/EC 12

H

Harmonized European design provisions 12
Hazardous locations, designation 10
Helial-worm gearmotors
  Selection tables /3GD T3 398
Helical gear motors
  Selection tables /2GD T3 132
Helical gear units
  Type designation 28
Helical gearmotors
  Design variants 34
  Dimension sheets 423
  Selection tables /3GD T3 275



Helical-bevel gear unit
Type designation....29
Helical-bevel gearmotors
Design variants....37
Selection tables /2GD T3....215
Selection tables /3GD T3....361
Helical-worm gear unit....56
Helical-worm gear units
Type designation....29
Helical-worm gearmotors
Design variants....39
Selection tables /2GD T3....250
Hollow shaft and key, installation and removal....98
Hollow shaft mounting system, TorqLOC®....105

I

Important notes on selection tables and dimension drawings....127
Installation of gear units with hollow shaft and key
Supplied fastening parts....98
Installation/removal of gear units with hollow shaft and key....98

K

Key to the data tables for explosion-proof AC brakemotors....635

L

Lifting eyes....129
Lubricant fill quantities....92
Lubricant table....90
Lubricants
General information....90
Lubricant fill quantities....92
Lubricant table....90, 91
Rolling bearing grease....96
Lubricants and fill quantities
R, F, K, S, W gear units....90

M

Mechanical attachments....32
Motor protection....12
Mounting gear units with hollow shaft and key
Use the SEW installation/removal kit....100
Mounting of gear units....122
Mounting positions....89
Churning losses....63
Key to the mounting position sheets....63
Mounting positions of R, F, K, S and W gear units....58
Multi-stage gearmotors....52

N

Notes on the gearmotor dimension sheets....128

O

Oil expansion tank....52
Options
Type designation....30
OS surface protection....25
Output variants....31
Overview of explosion-proof equipment....15
Overview of types and type designation
R, F, K, S, W gear units....28

P

Painting....22
Parallel-shaft helical gear unit
Type designation....28
Parallel-shaft helical gearmotors
Design variants....35
Selection tables /2GD T3....183
Selection tables /3GD T3....328
Position of torque arm....130
Product description DR
Mounting positions....89
Product names....9
Products....6
Project planning for gear units
Permitted overhung load....57
Service factor....54
Project planning information – R, F, K, S, W gear units....50
Project planning procedure for EDR. drives – inverter powered....49
Project planning procedure for EDR. drives – line powered....48
Protection type c – Constructive safety....19
Protection type d – Flameproof enclosure....17
Protection type e – Increased safety....17
Protection type k – Liquid immersion....19
Protection type n....19
Protection type t....20
Protection types....16

R

Reduced backlash gear units....23
Regulations....14
Removal of the gear units with hollow shaft and key
With the SEW installation/removal kit....102
Rubber buffer for FA/FH/FV/FT....129

S

Selection tables
Helical gearmotors /2GD T3....132
Helical gearmotors /3GD T3....275
Helical-bevel gearmotors /2GD T3....215
Helical-bevel gearmotors /3GD T3....361
Helical-worm gearmotors /2GD T3....250
Helical-worm gearmotors /3GD T3....398
Parallel-shaft helical gearmotors /2GD T3....183
Parallel-shaft helical gearmotors /3GD T3....328
SPIROPLAN® gearmotors /2GD T3....268
SPIROPLAN® gearmotors /3GD T3....416
Selection tables and dimension sheets....127
Self-locking helical-worm or SPIROPLAN® gear units....50
Service factor
Determining the service factor....54
SEW service factor fB....55
SEW-EURODRIVE
group of companies....5
Products....6
Systems....6
Shouldered hollow shaft with shrink disk....107
Helical-bevel gear unit....110
Helical-worm gear unit....112
Parallel-shaft helical gear unit....108
Shrink disk connection....129
SPIROPLAN® gear units
Type designation....30
SPIROPLAN® gearmotors
Design variants....41
Selection tables /2GD T3....268
Selection tables /3GD T3....416
Splined hollow shaft....129
Storage conditions....27

T

Technical data
AC motors DR63, DV.250 / 280, protection type nA, category II3GD....640
AC motors eDR63, DV.250 / 280, protection type e, category II2G....640
Category ATEX 2G, 2GD....635
Category ATEX 3GD....637
Technical data of explosion-proof AC motors....635
Temperature sensor / temperature detection....32
Tolerances....128
Flanges....128
Hollow shafts....128
Multiple-spline shafts....128
Shaft ends....128
Shaft heights....128
TorqLOC® hollow shaft mounting system....105
Torque arm
Design suggestions....122
Torque arm position....130
Trademarks....9
Type designation
Helical gear unit....28
Helical-bevel gear unit....29
Helical-worm gear unit....29
Options....30
Parallel-shaft helical gear unit....28
SPIROPLAN® gear unit....30
Temperature detection....32
Type designation DR
Connection variants....33
Encoder....32
Explosion-proof motors....33
Other additional features....33
Output variants....31
Temperature sensor, temperature detection....32
Ventilation....33
Type designation EDR
Mechanical attachments....32
Motor series....31

U

Unit groups, division into....15
Unit marking according to directive 94/9/EC....21

V

Variants, possible
Reduced backlash....23
SPIROPLAN® gear units....23
Ventilation....33

Z

Zones in a potentially explosive atmosphere....14








SEW-EURODRIVE
Driving the world

SEW-EURODRIVE GmbH & Co KG
P.O. Box 3023
D-76642 Bruchsal/Germany
Phone +49 7251 75-0
Fax +49 7251 75-1970
sew@sew-eurodrive.com
→ www.sew-eurodrive.com